

FIG. 1

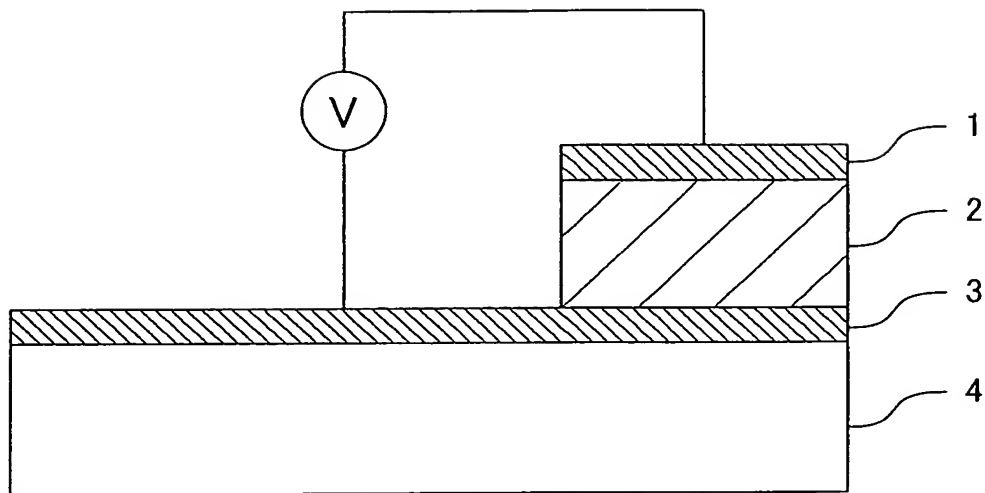


FIG. 2

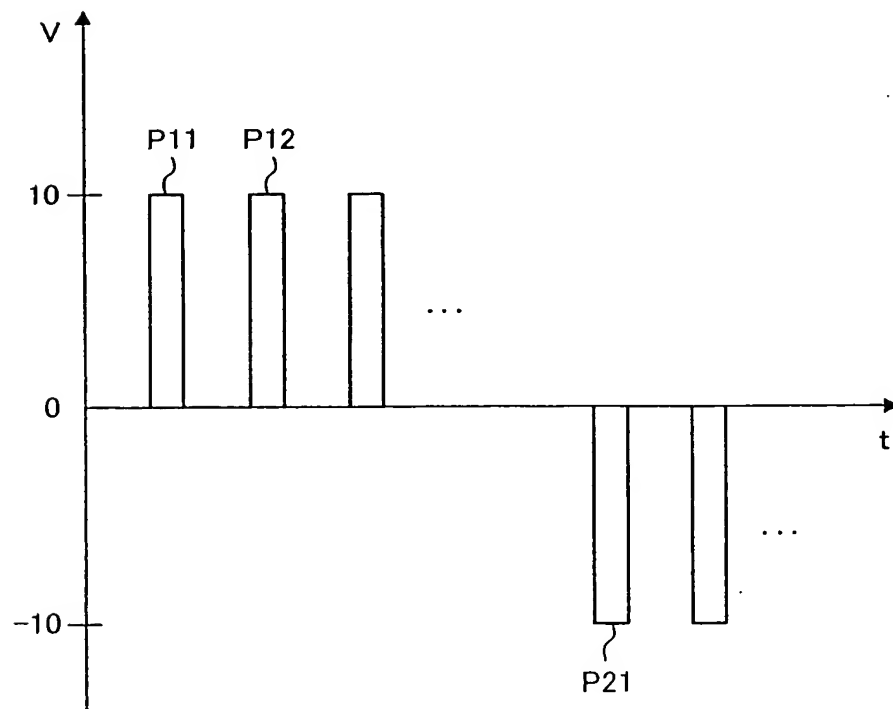


FIG. 3

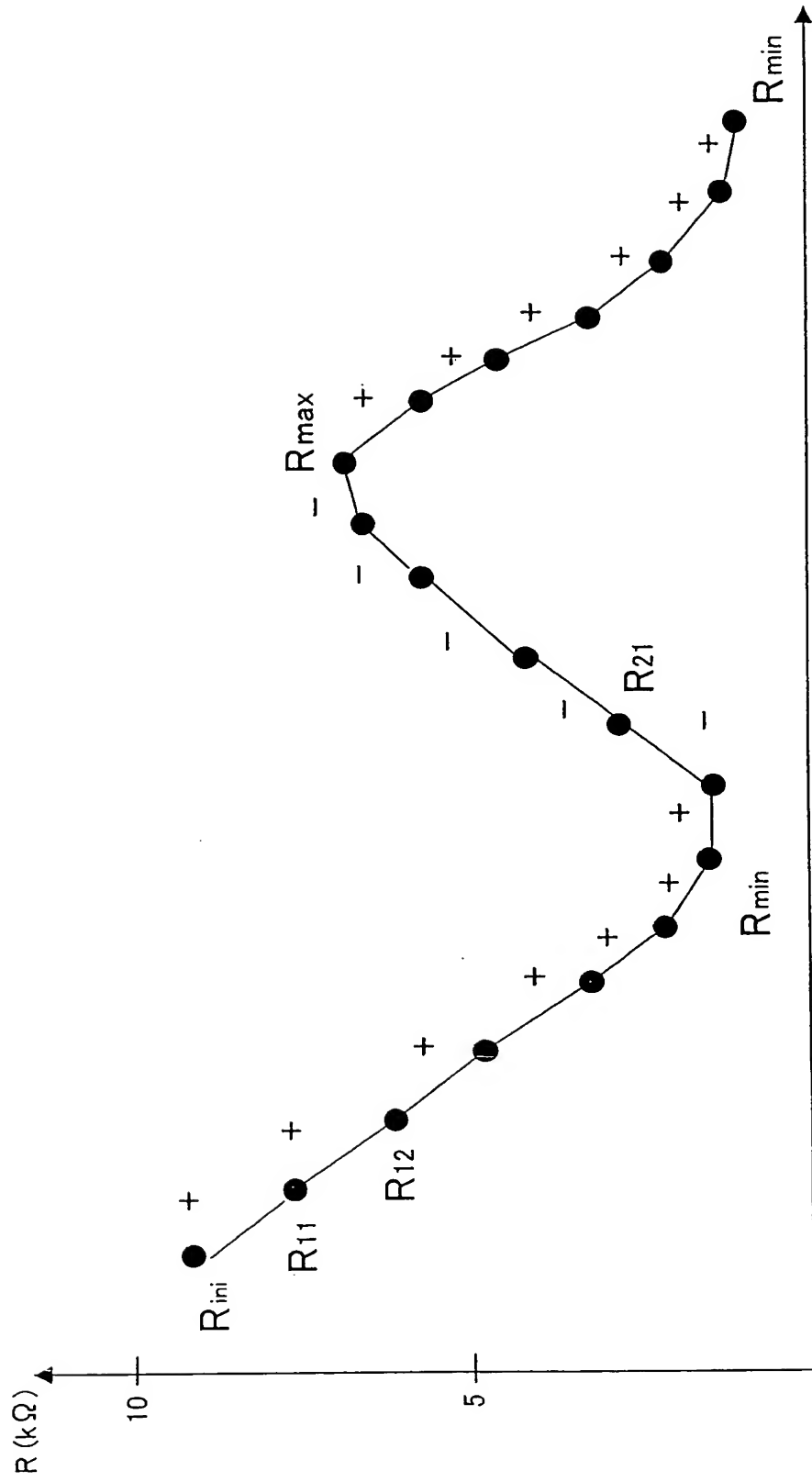


FIG. 4

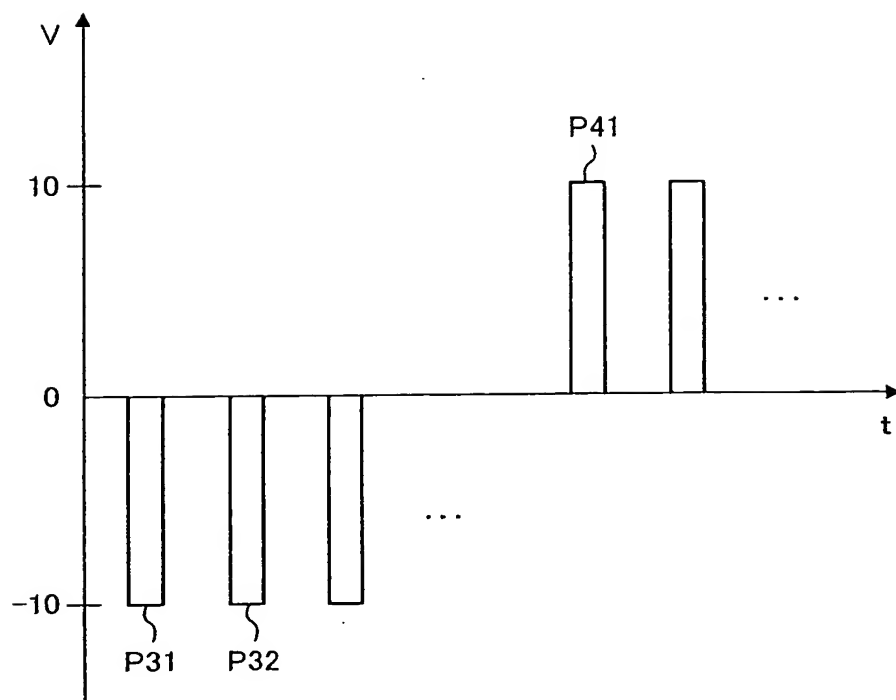


FIG. 5

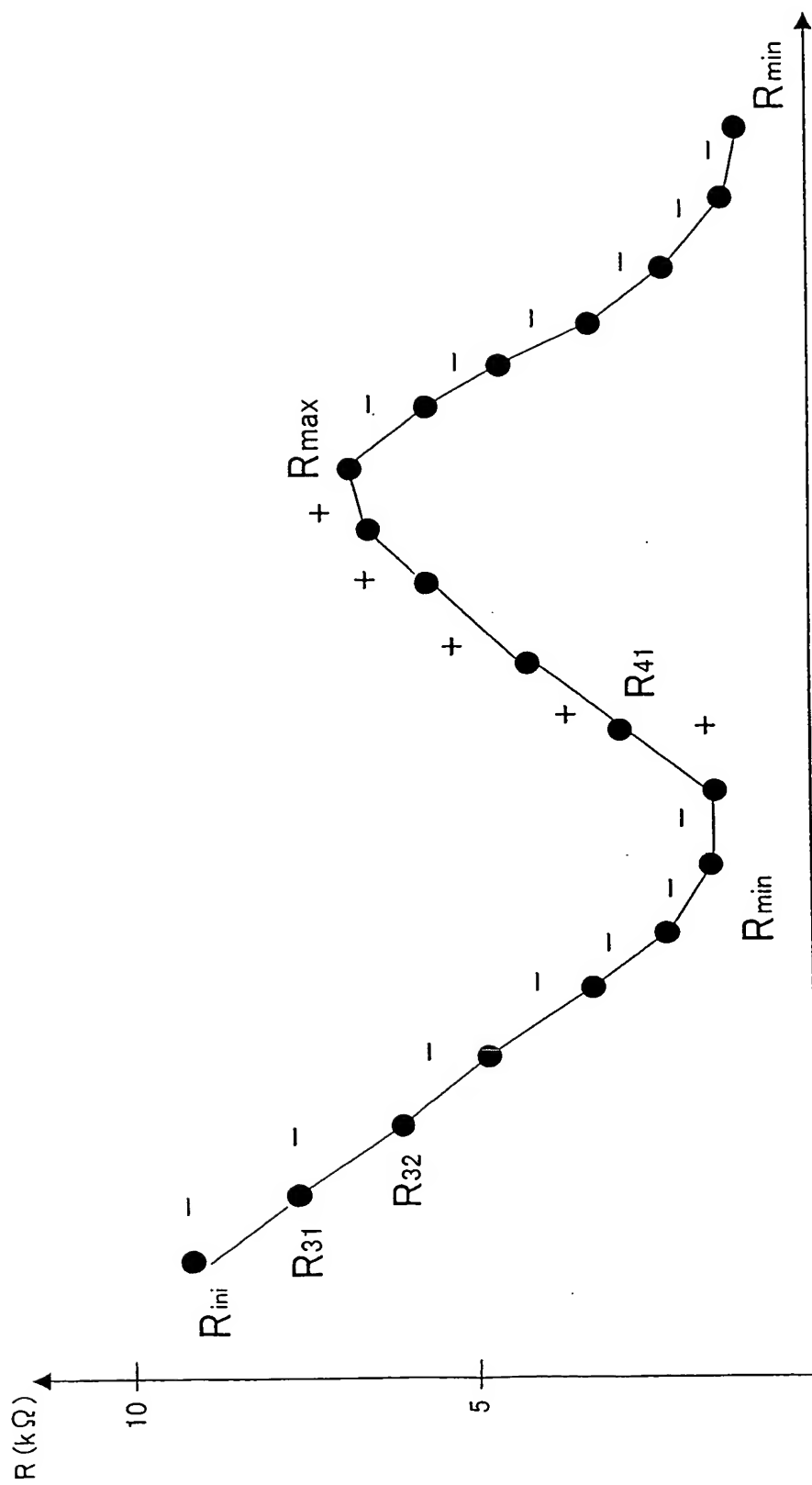


FIG. 6

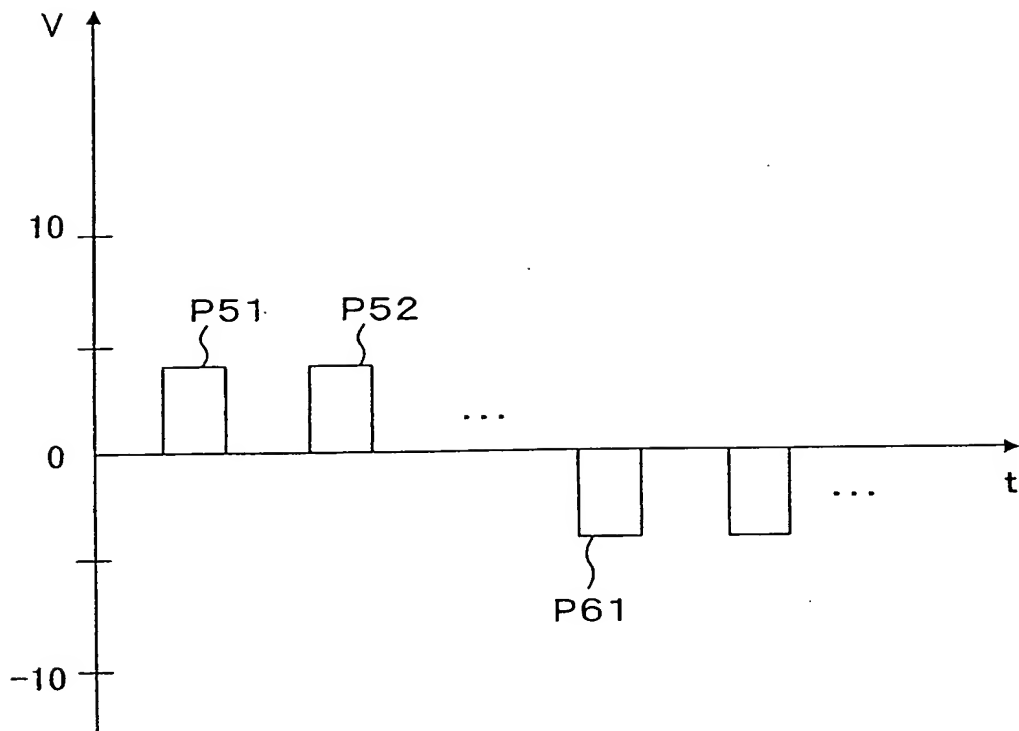


FIG. 7

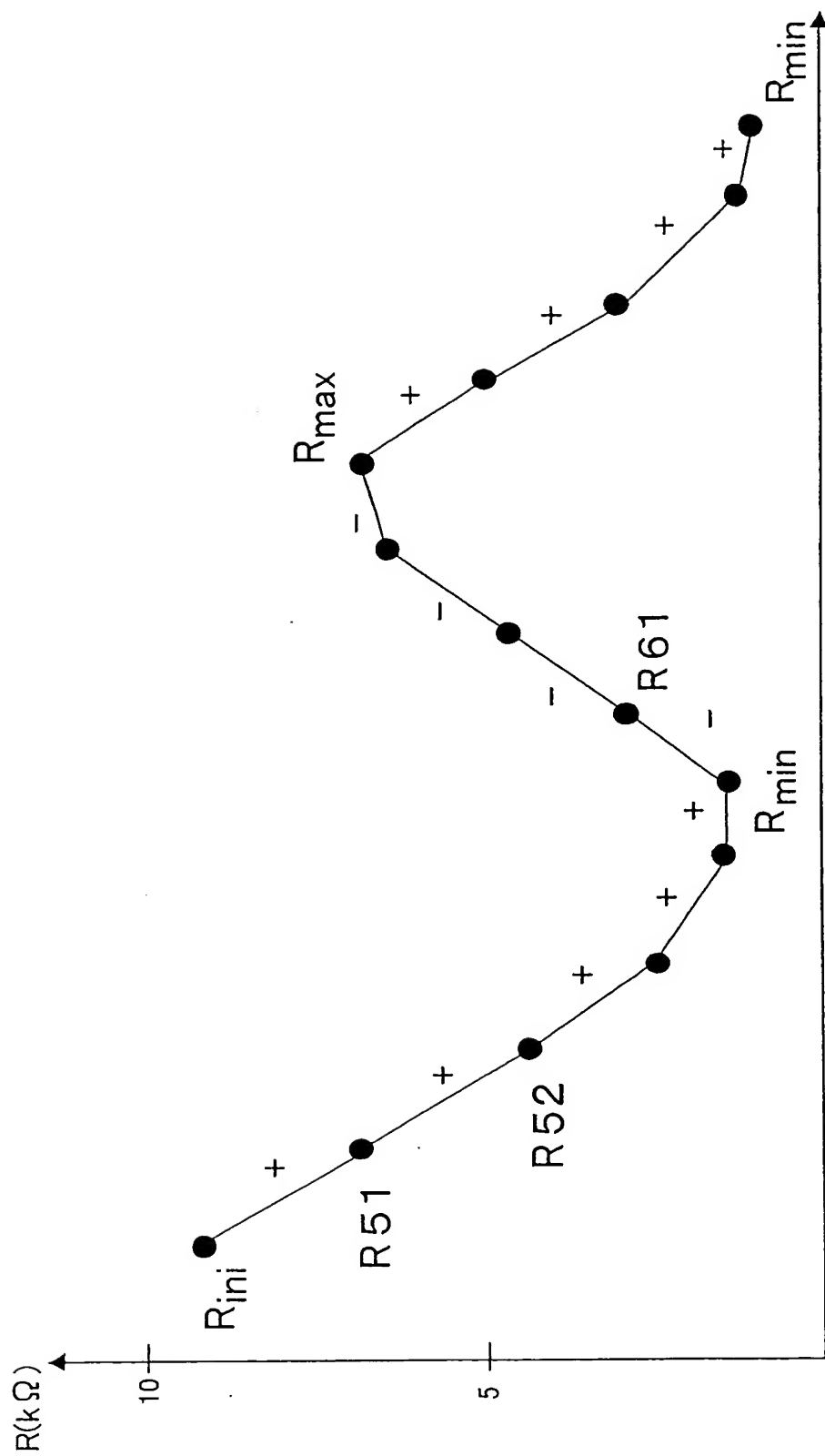


FIG. 8

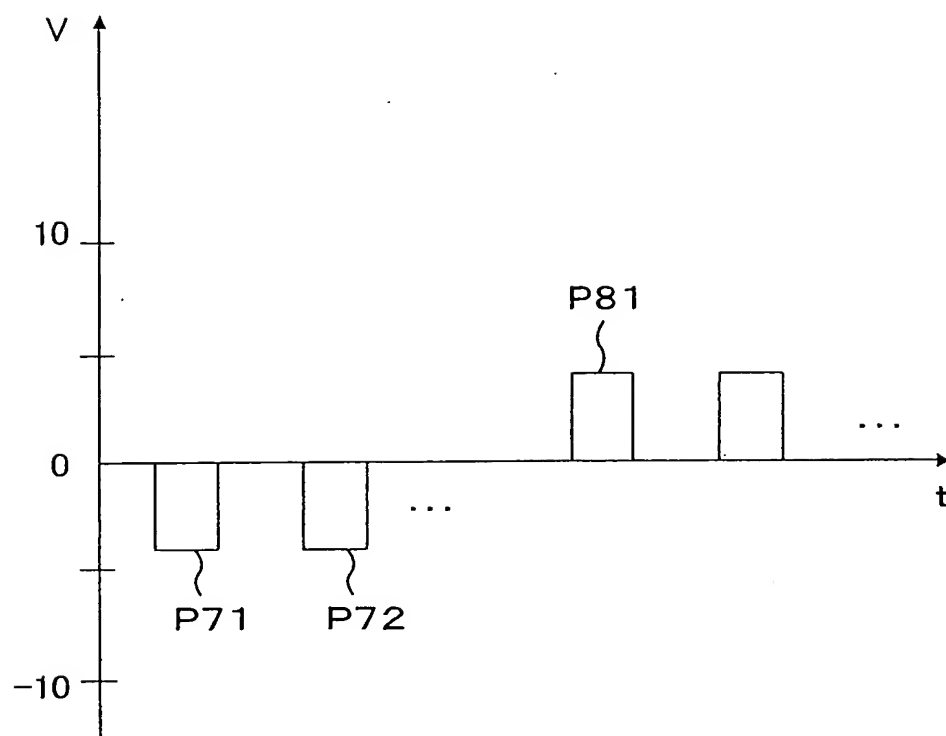


FIG. 9

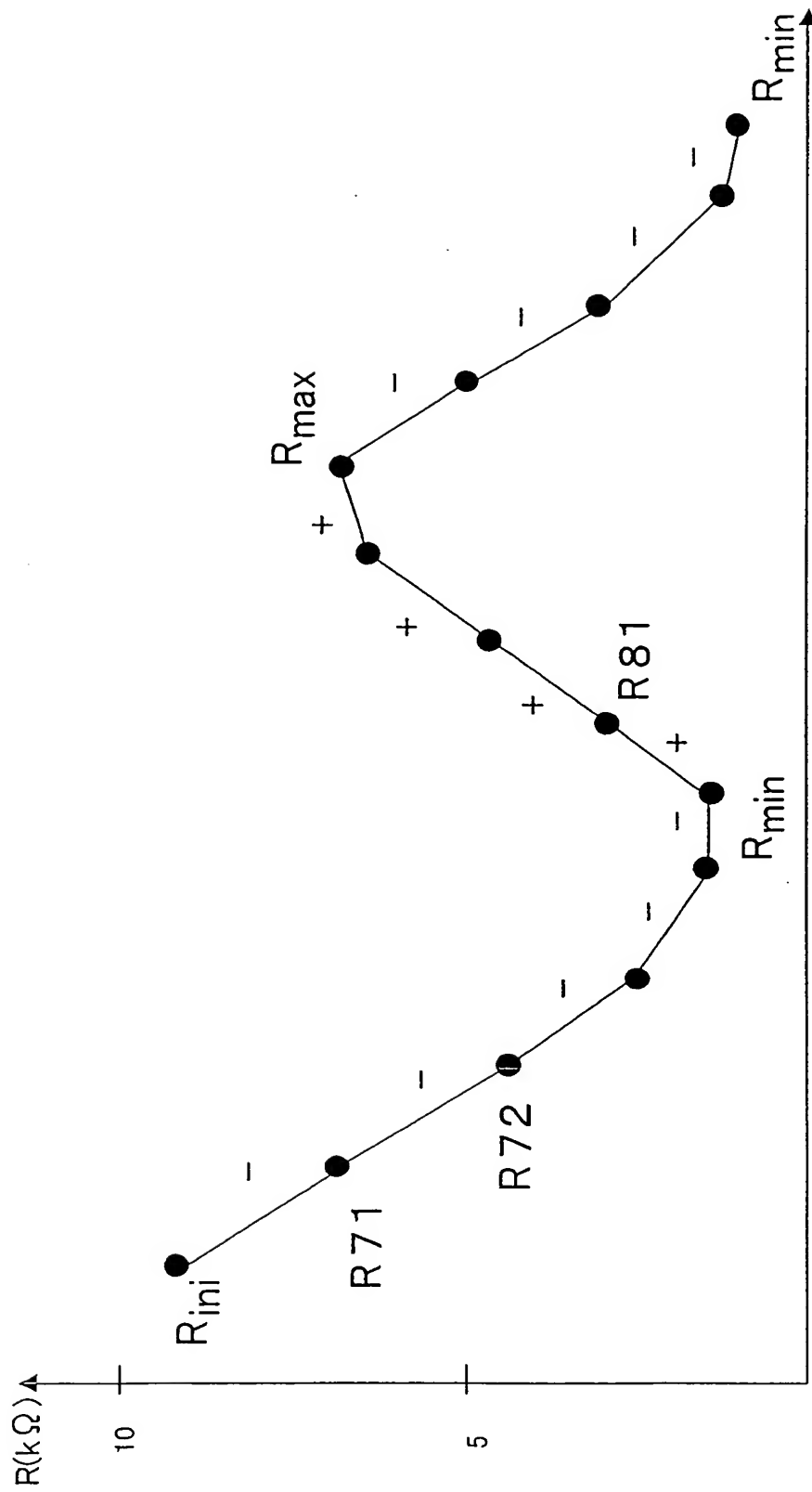


FIG. 10

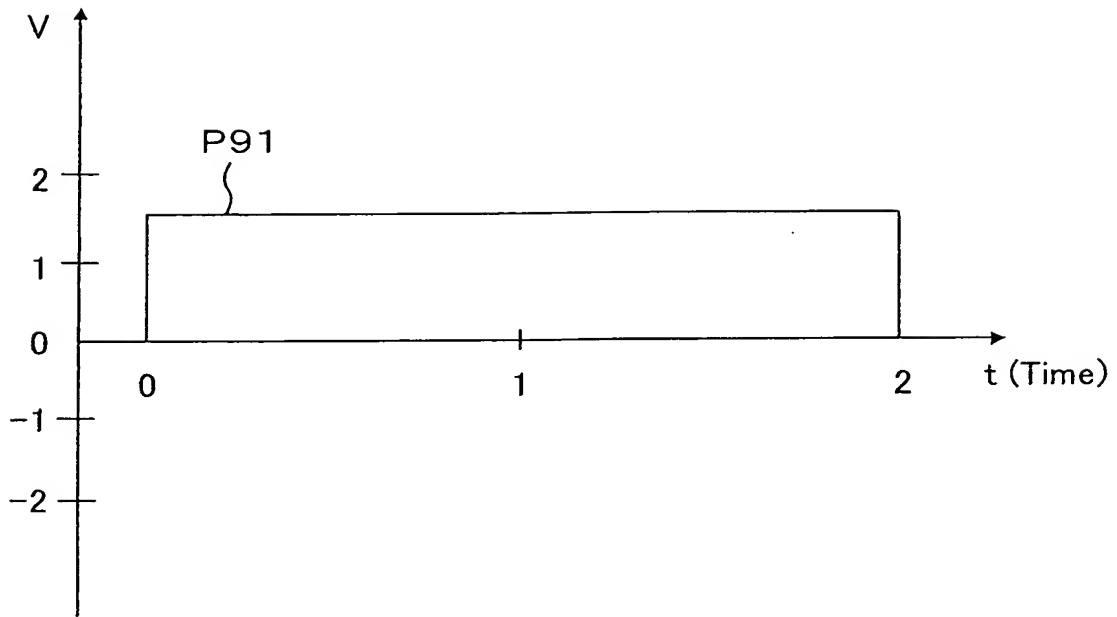


FIG. 11

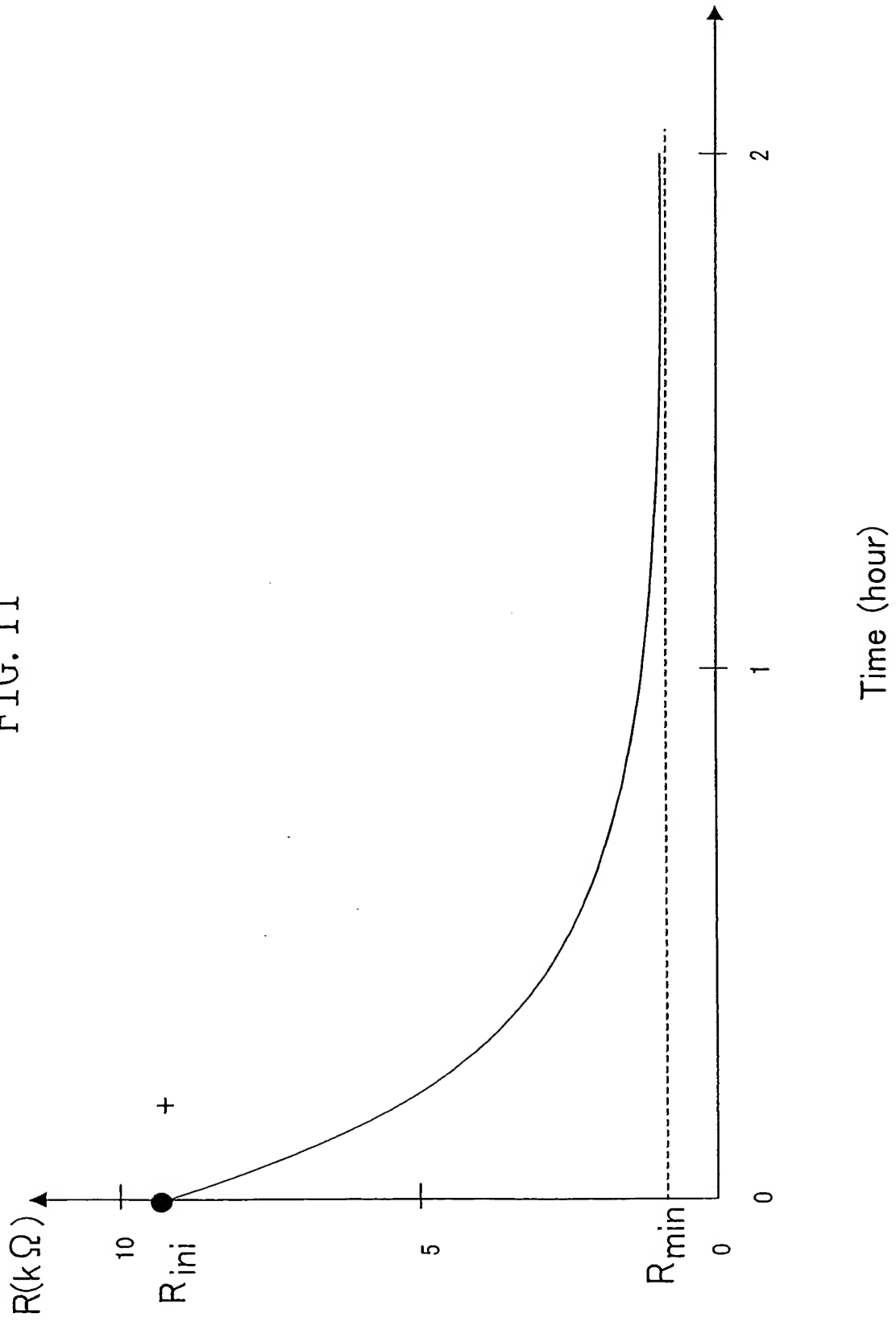


FIG. 12

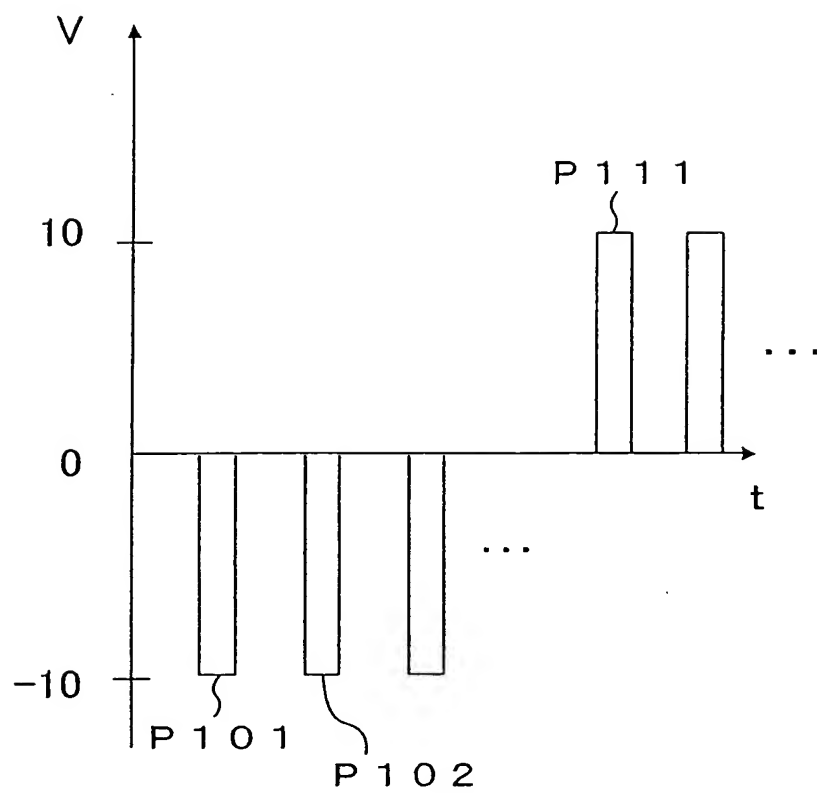


FIG. 13

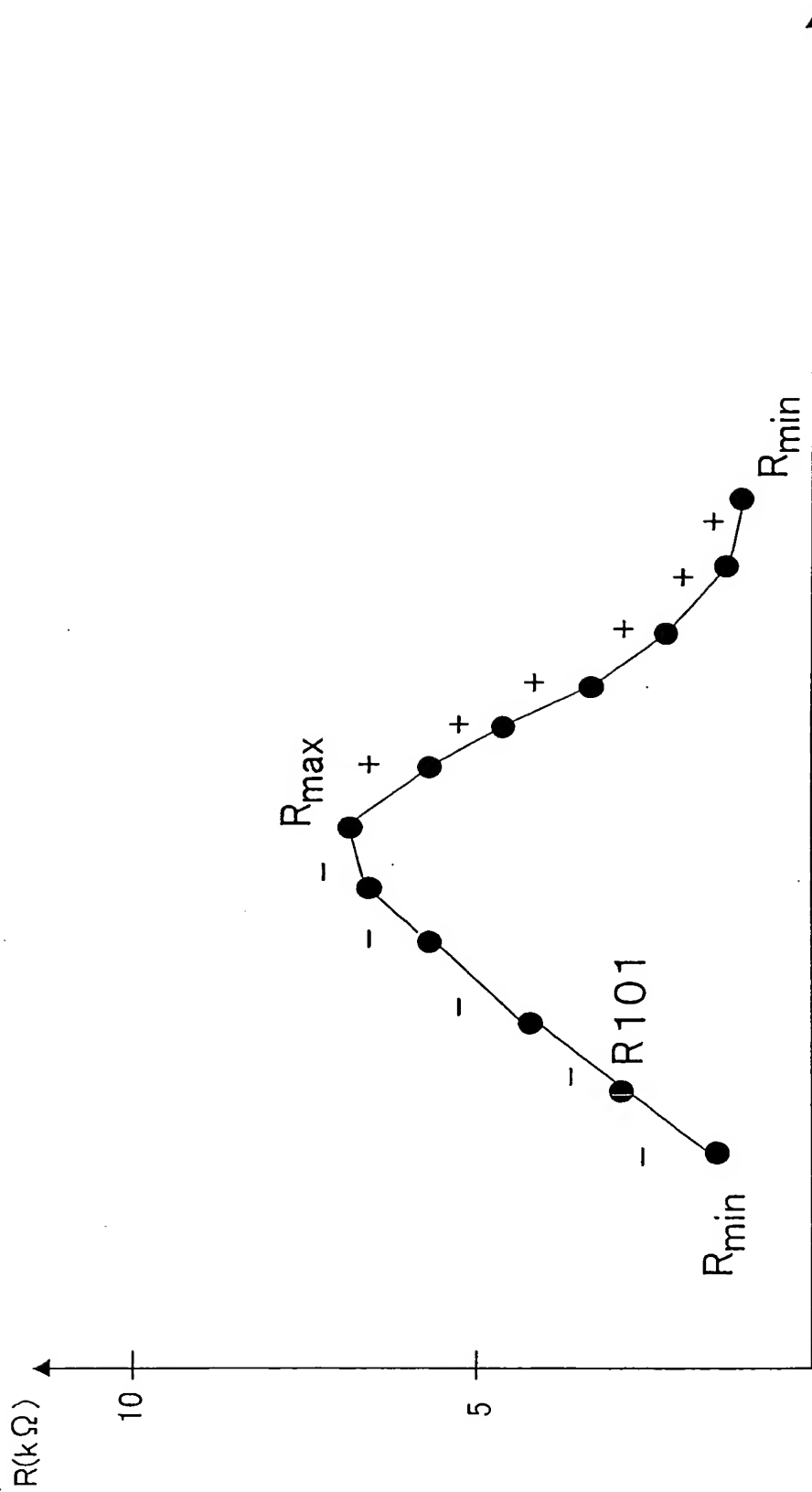
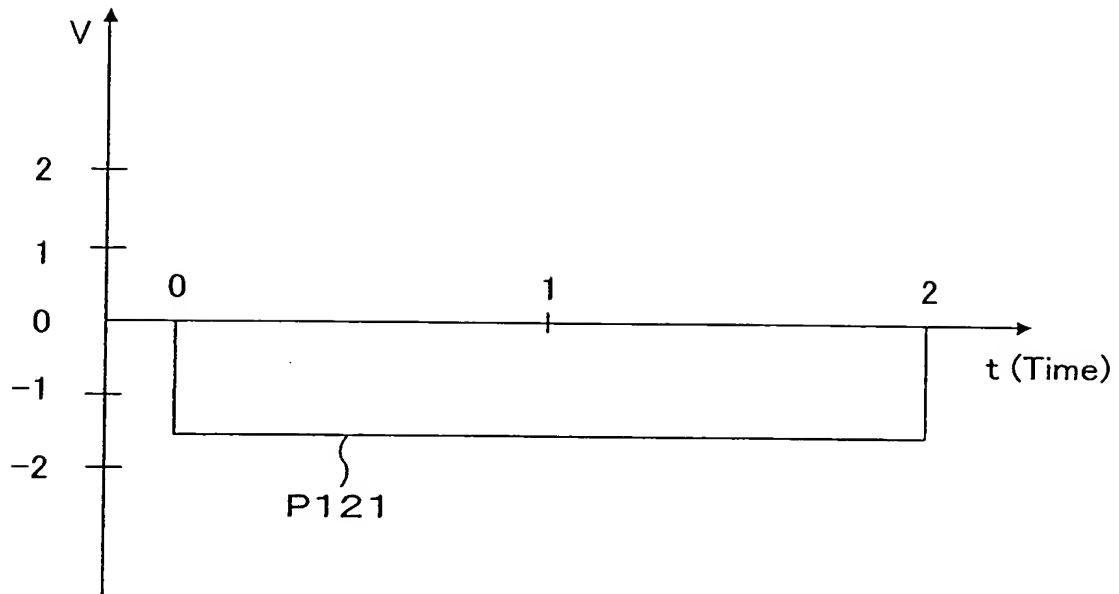


FIG. 14



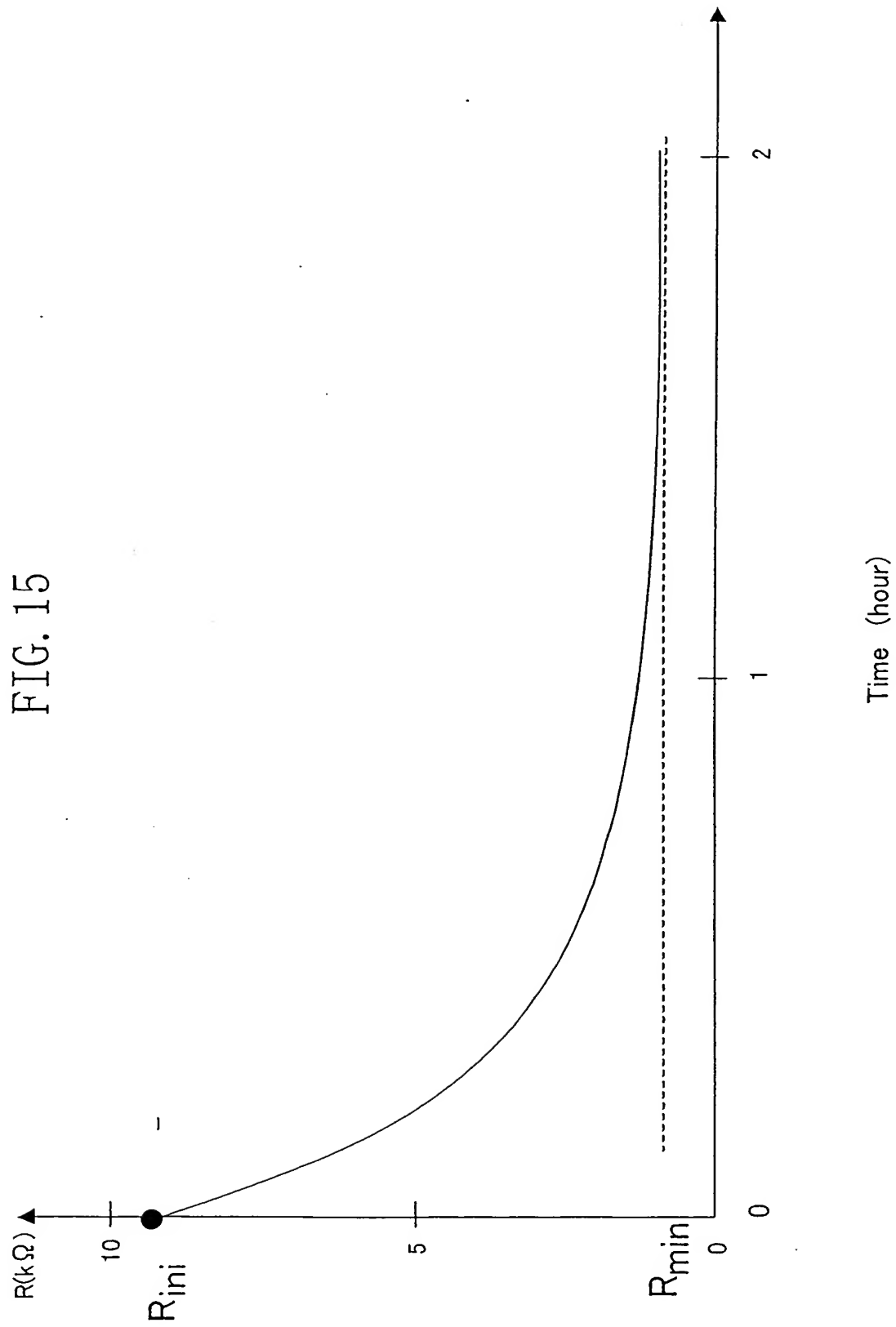


FIG. 16

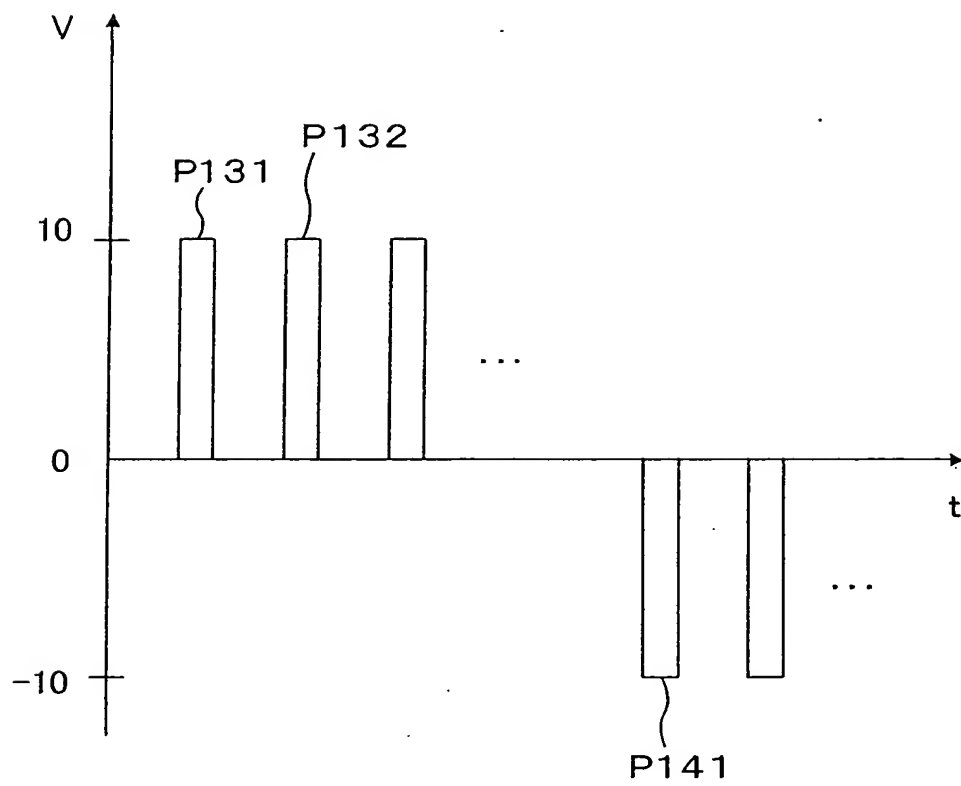


FIG. 17

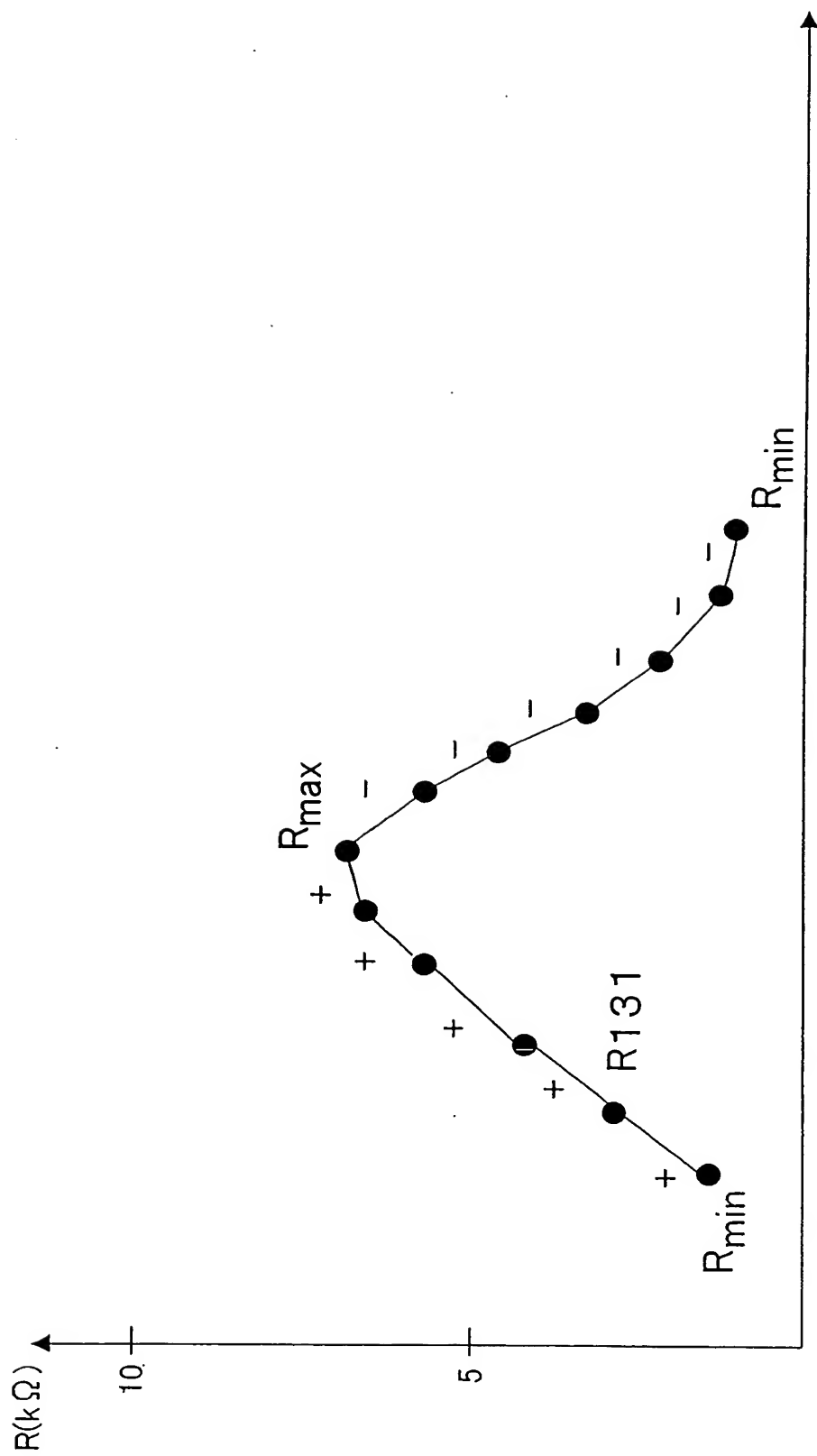


FIG. 18

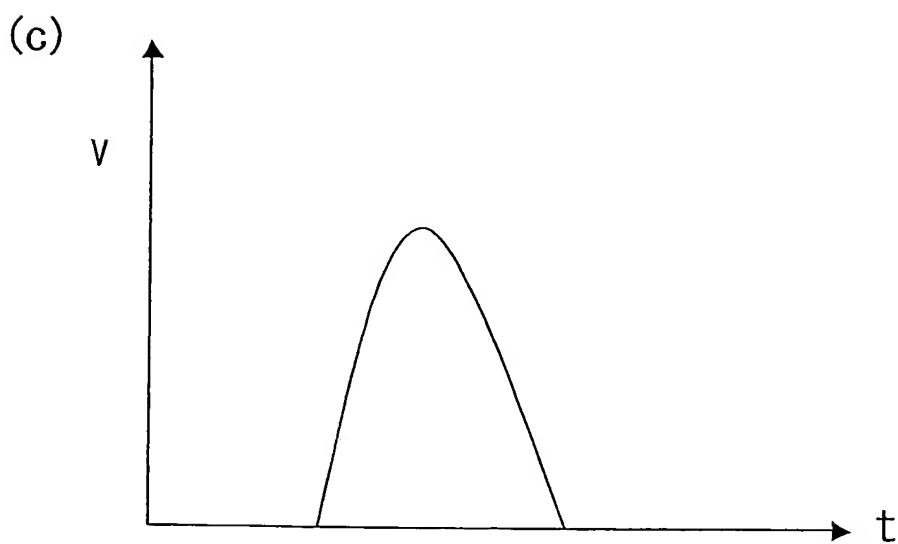
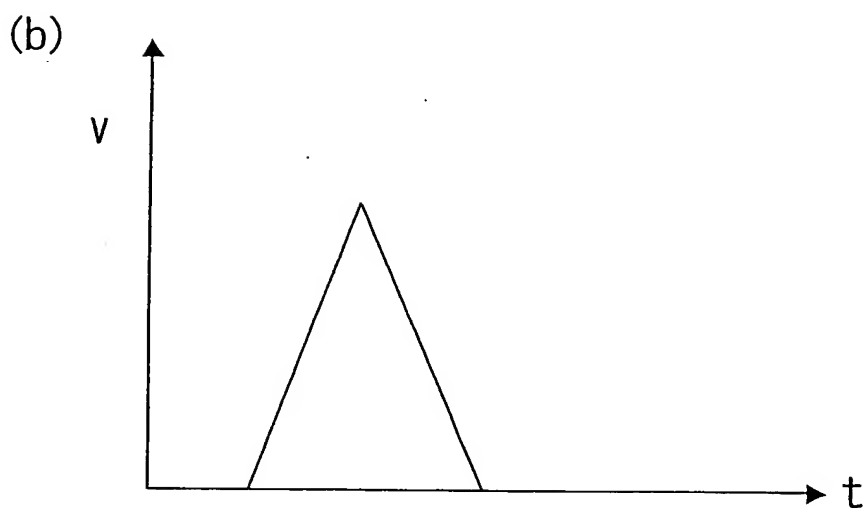
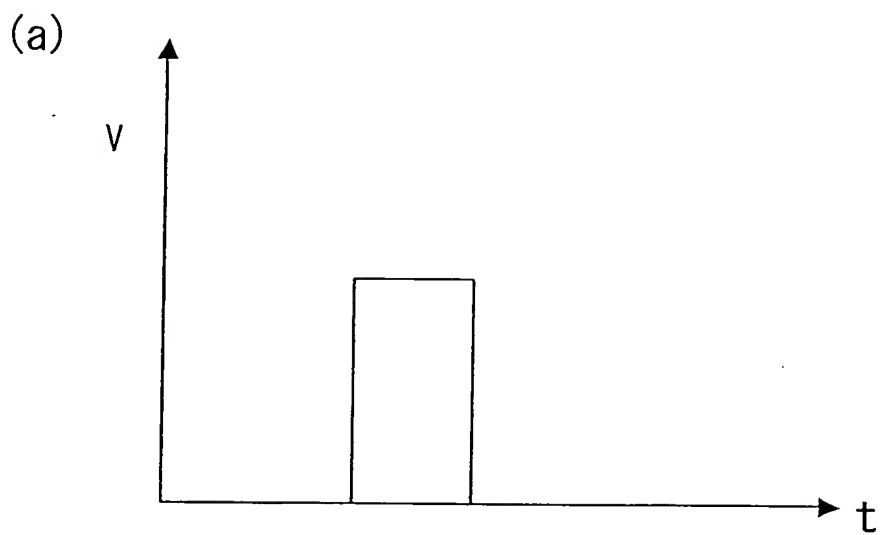


FIG. 19

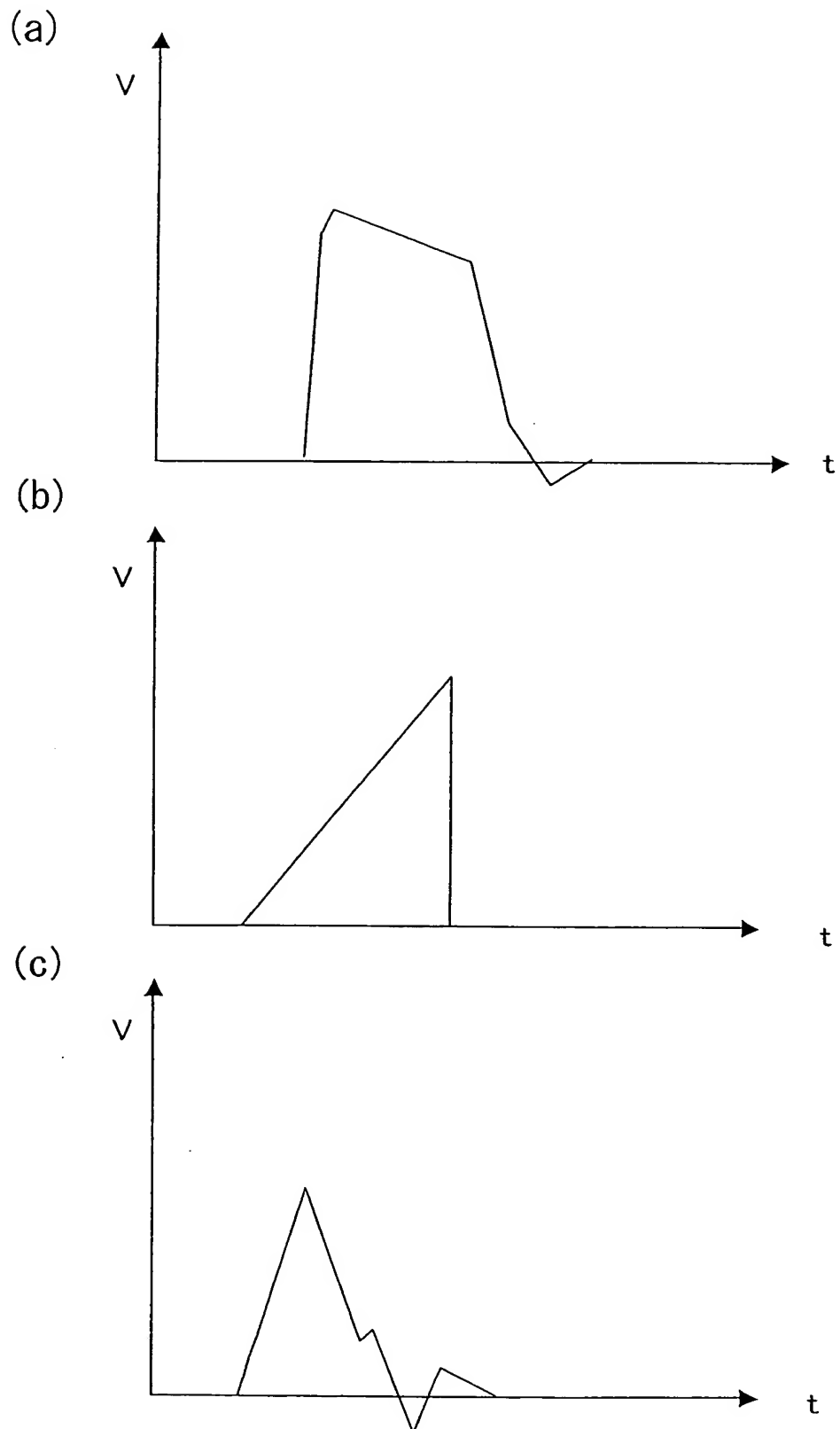


FIG. 20

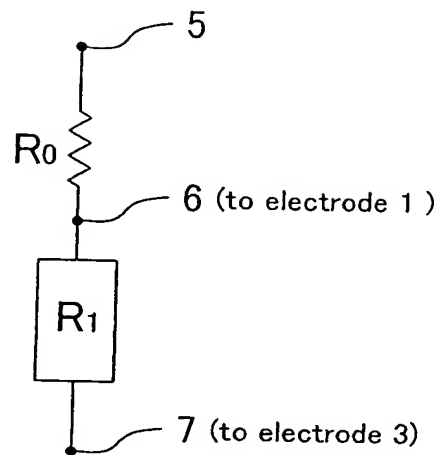


FIG. 21

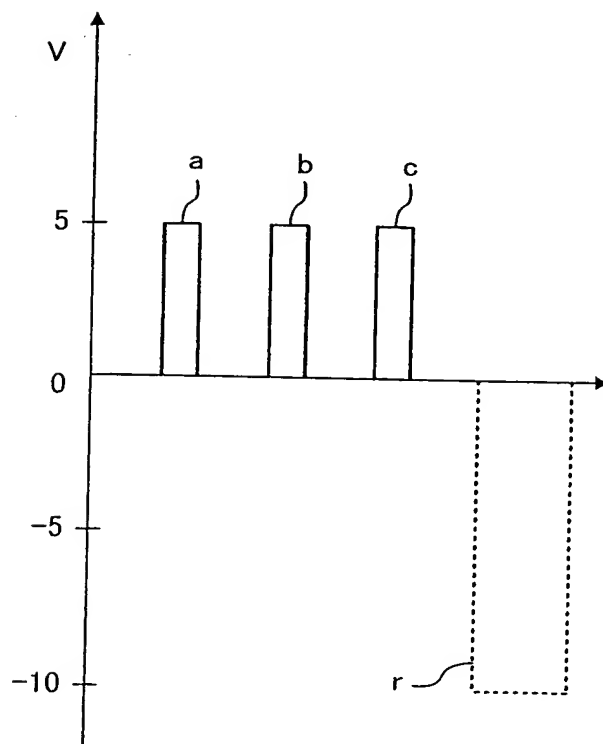


FIG. 22

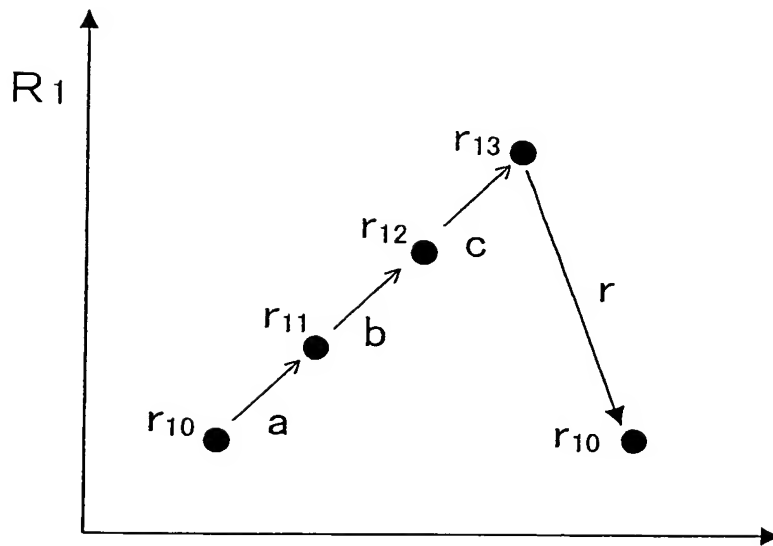


FIG. 23

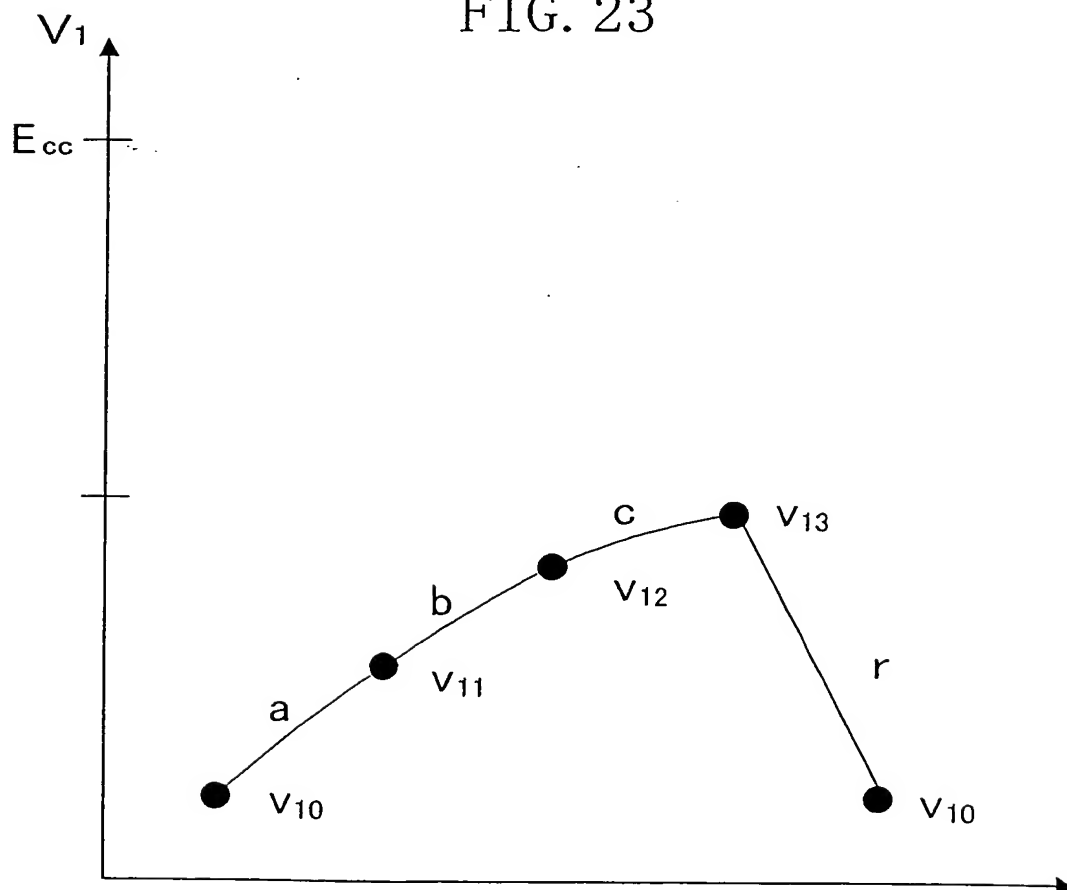


FIG. 24

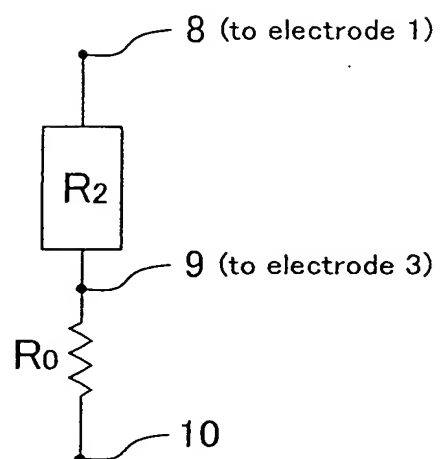


FIG. 25

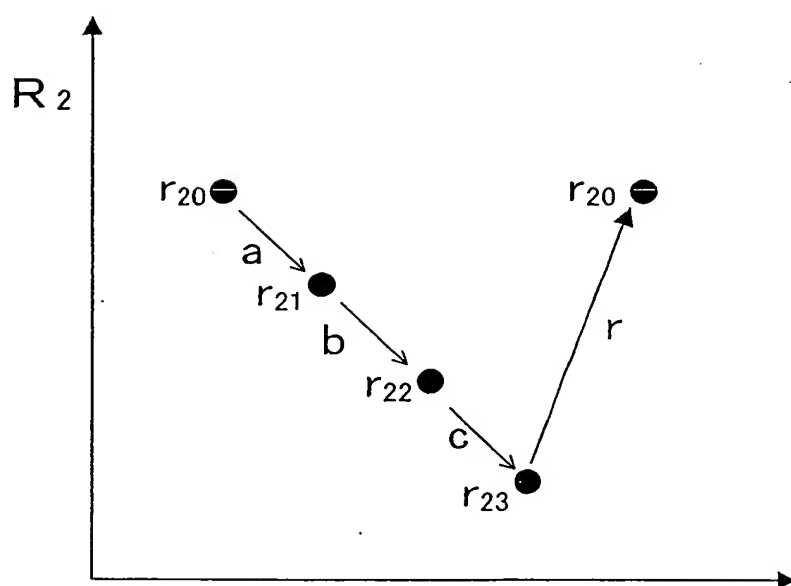


FIG. 26

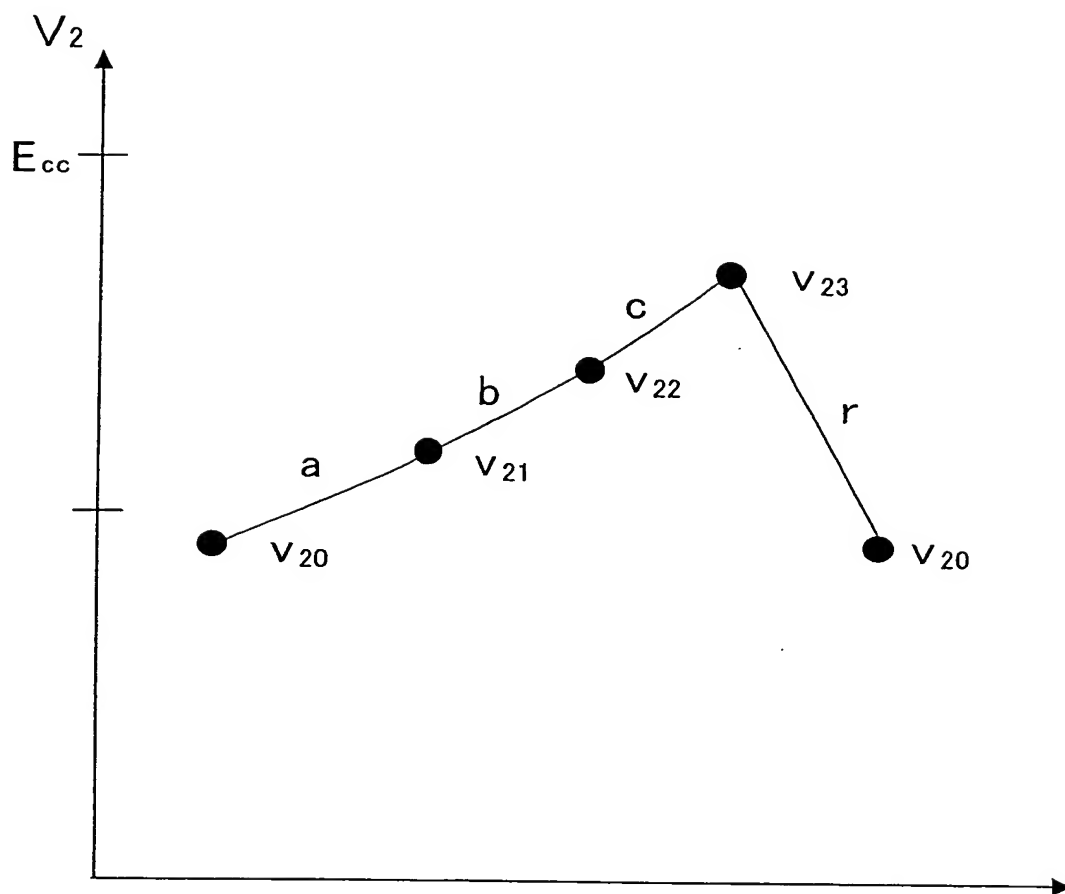


FIG. 27

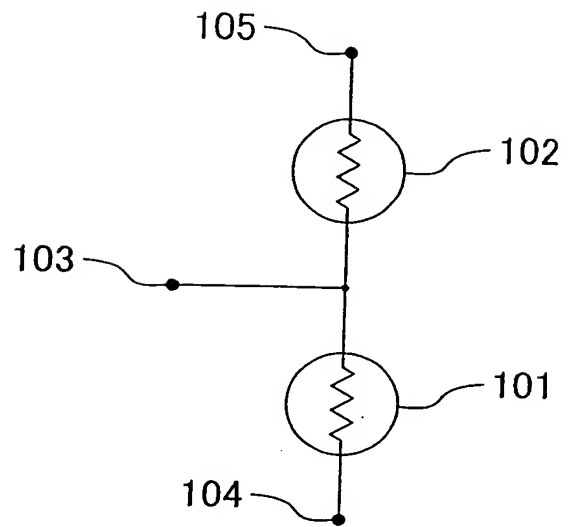
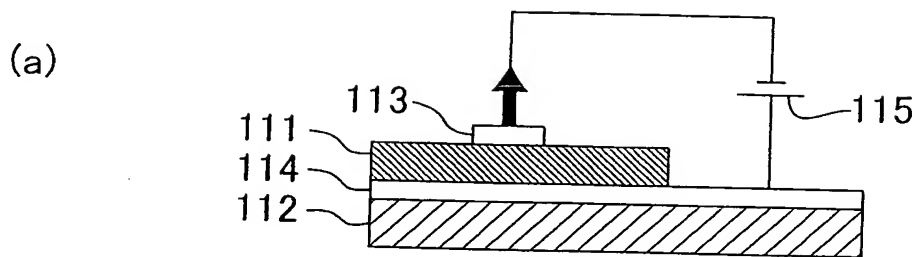
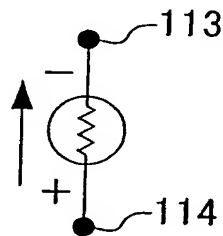


FIG. 28



(b)

Symbol of variable resistor



Symbols after initialization

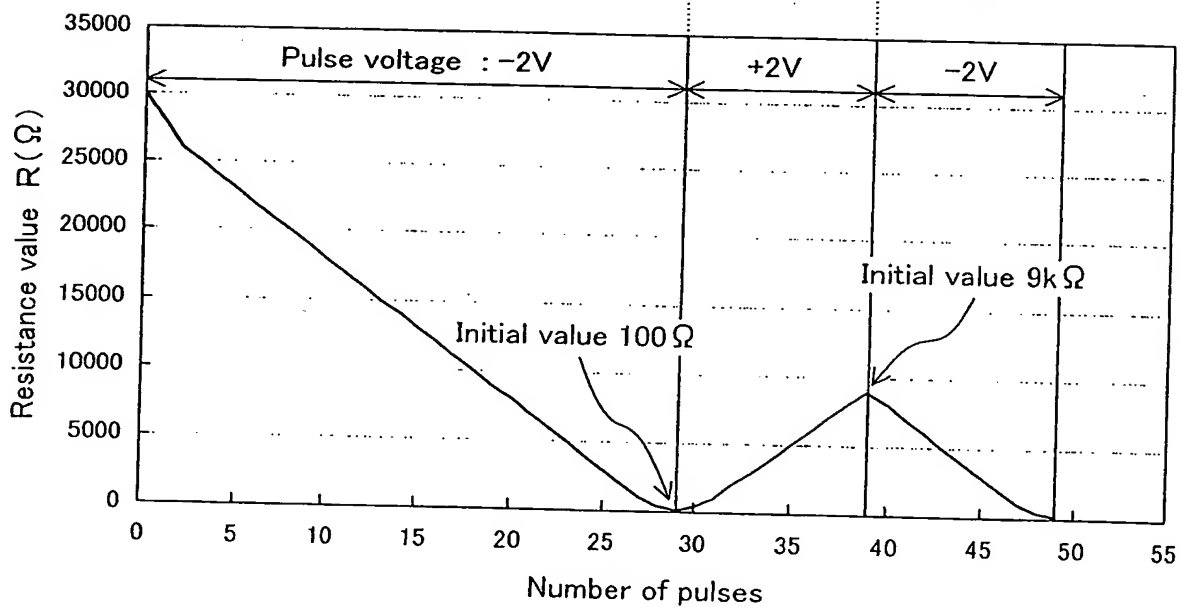
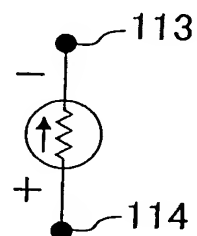
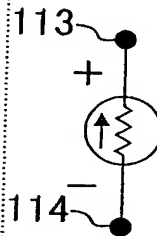
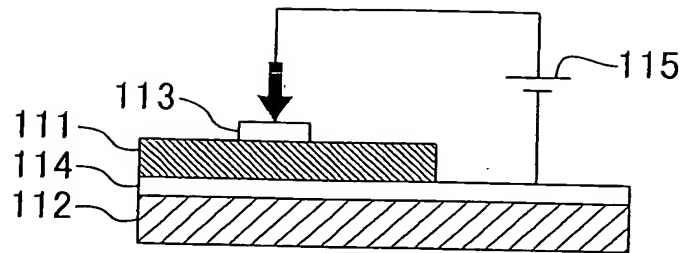


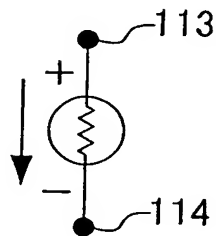
FIG. 29

(a)



(b)

Symbol of variable resistor



Symbols after initialization

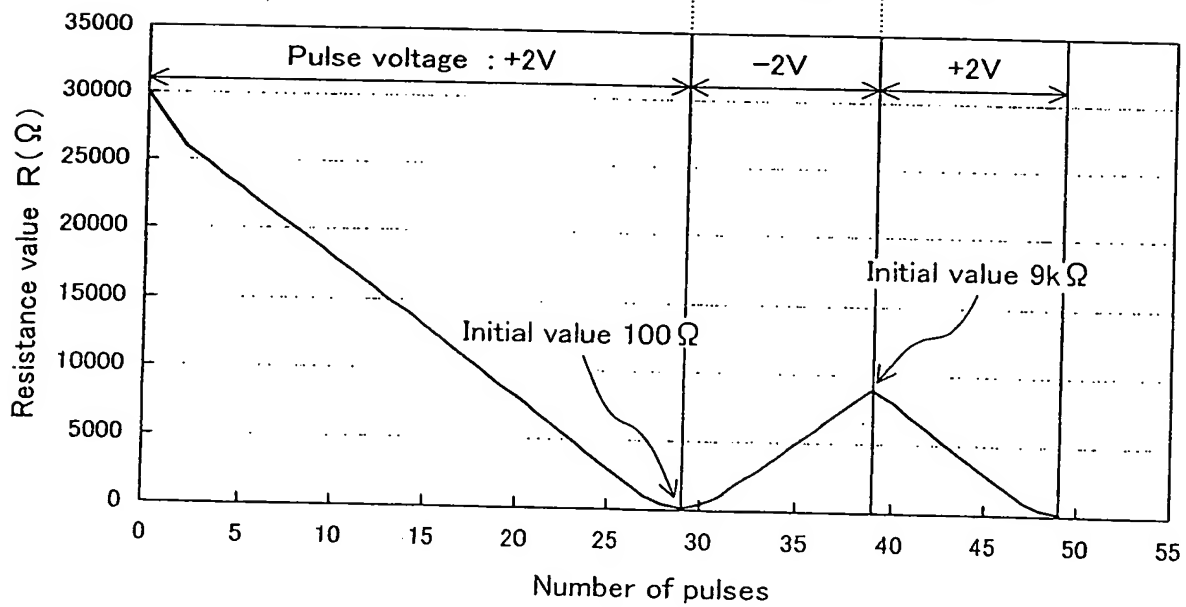
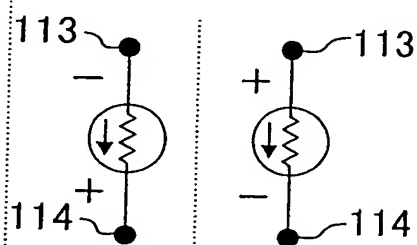


FIG. 30

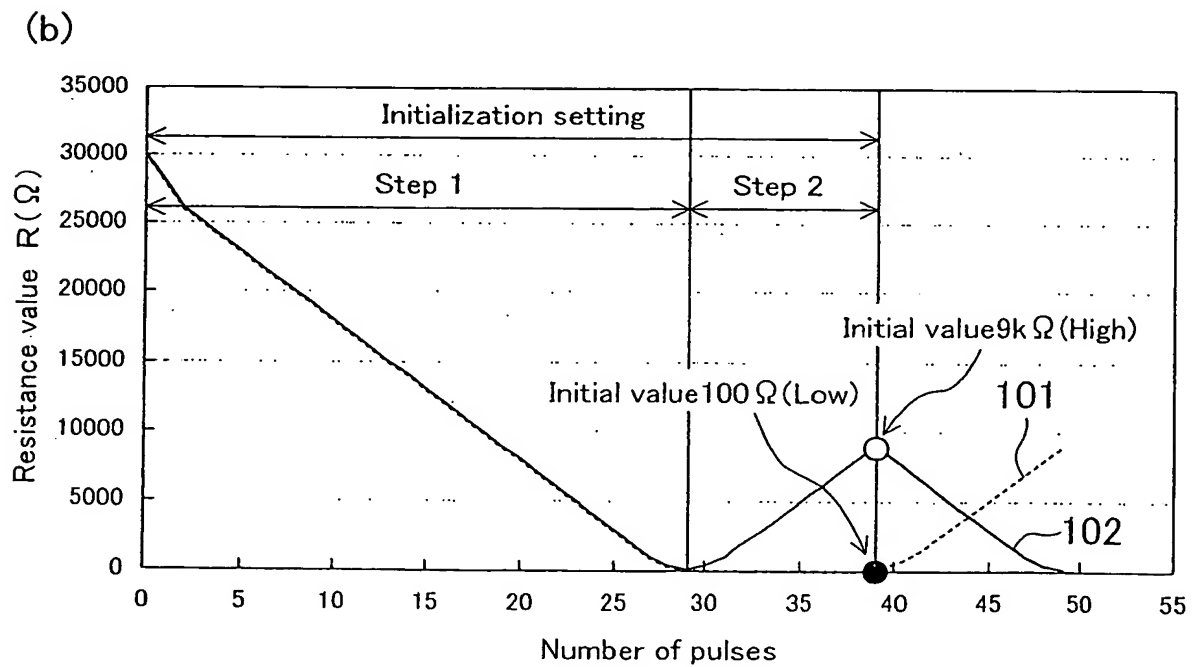
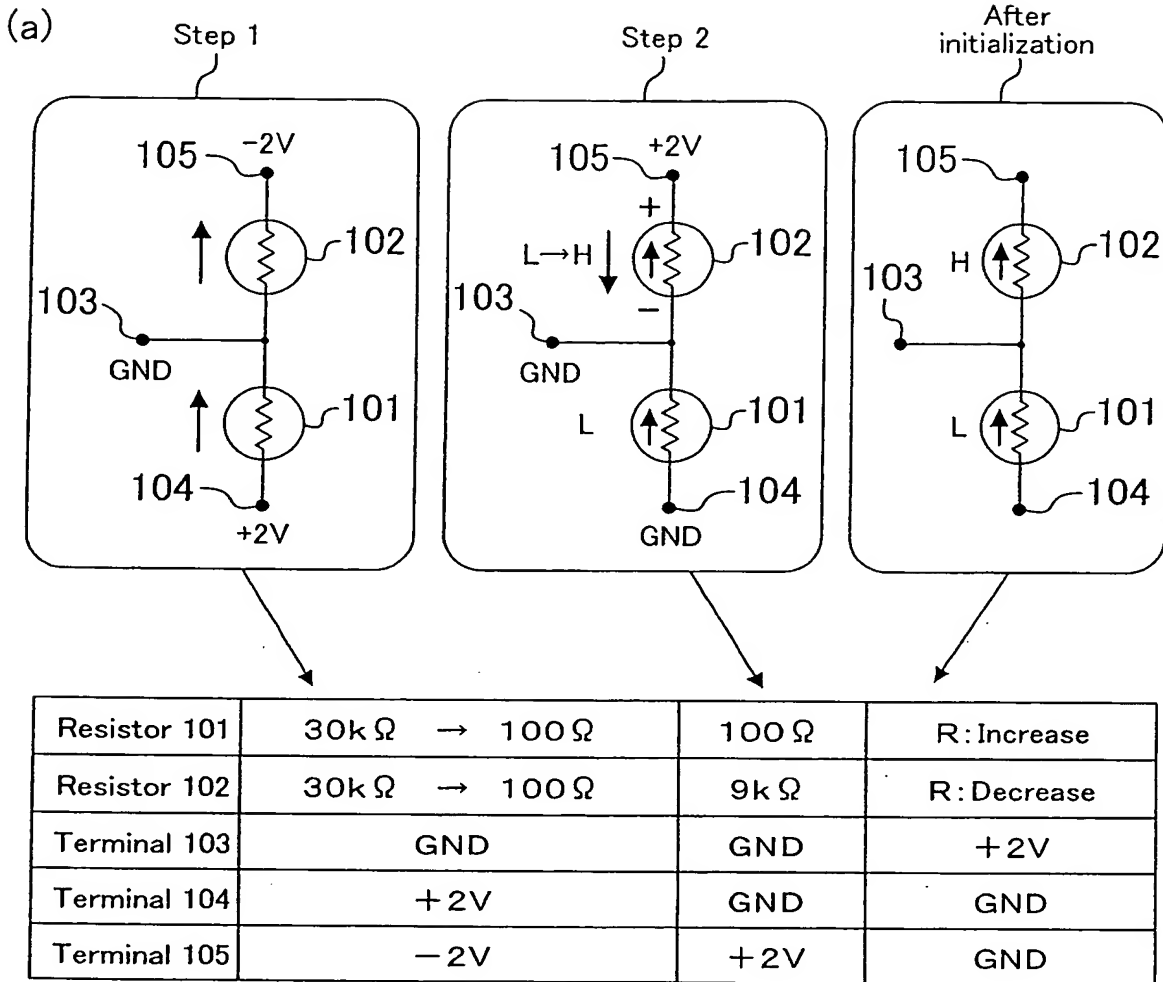
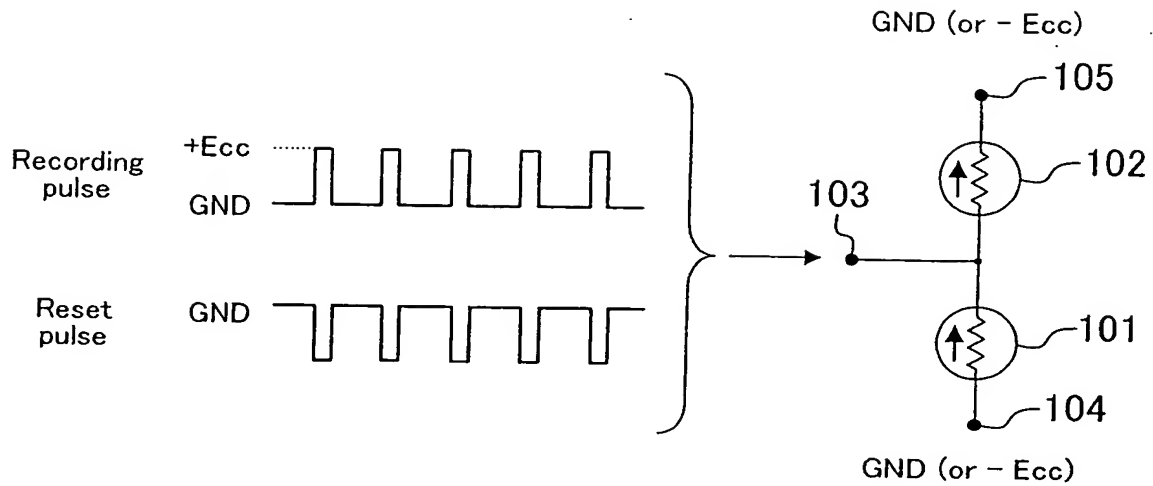


FIG. 31

(a)



(b)

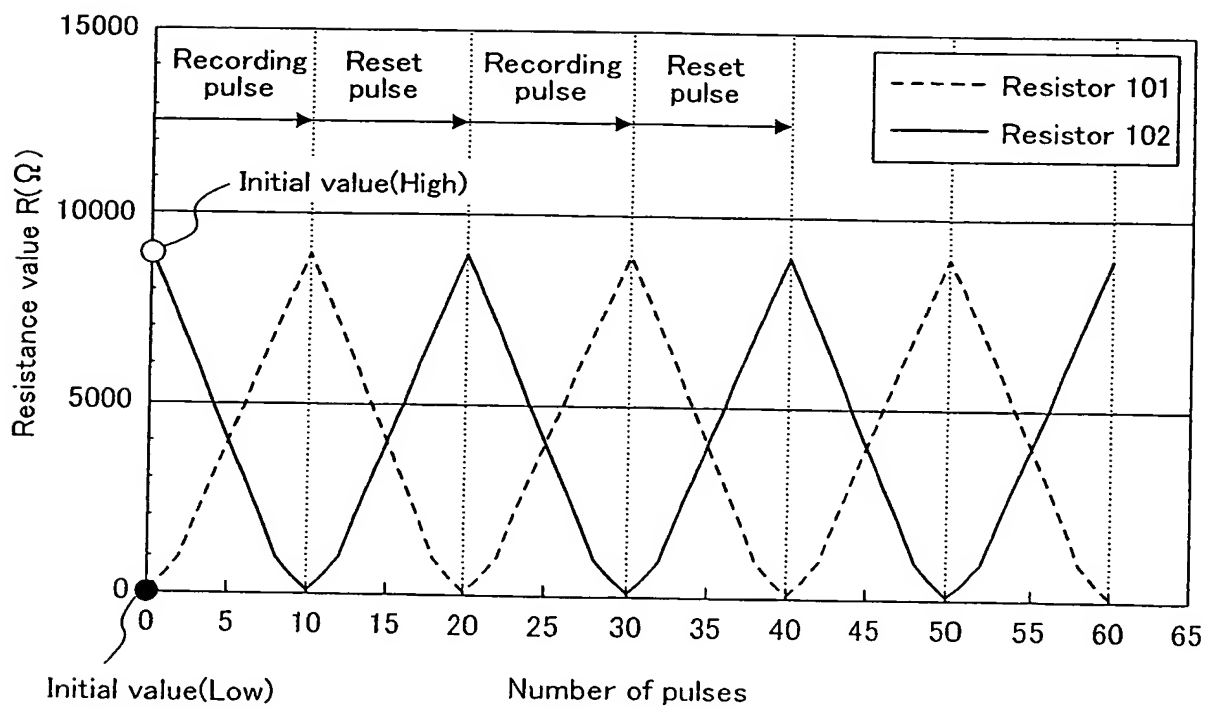


FIG. 32

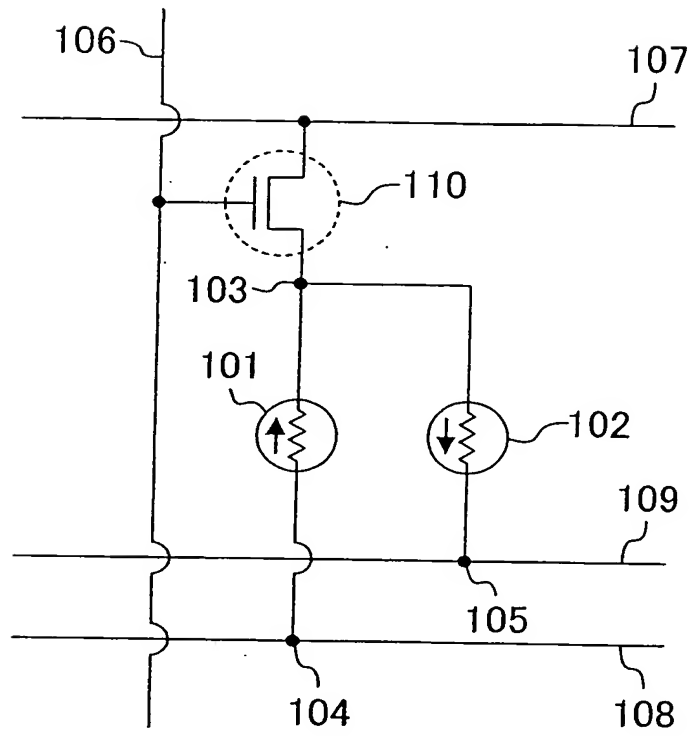
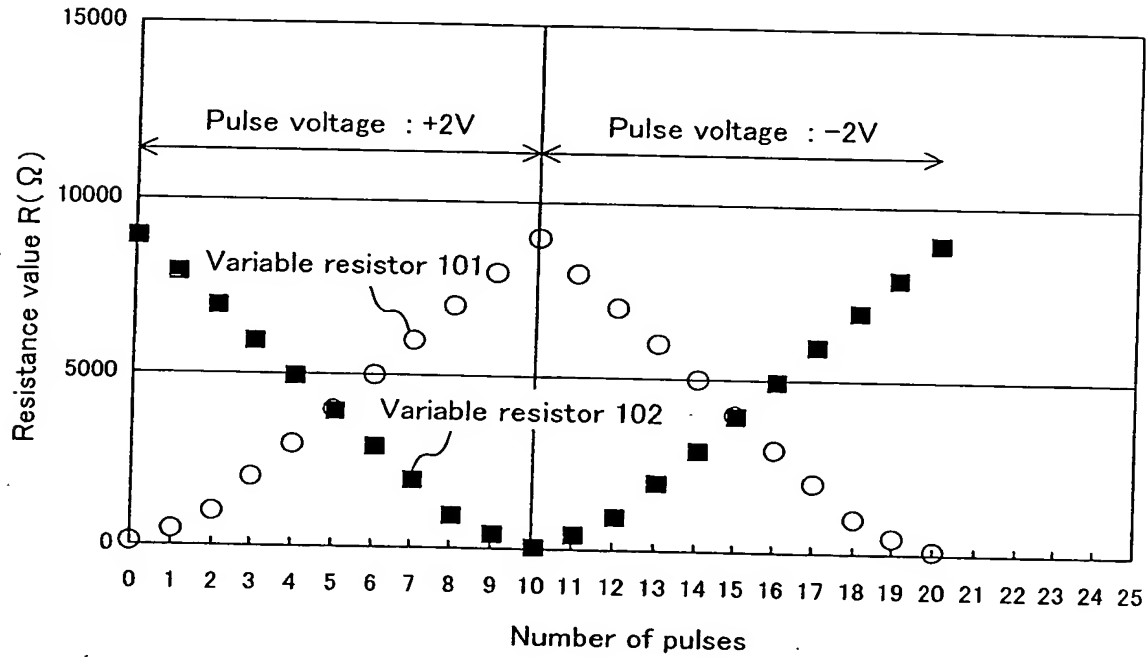


FIG. 33

(a) Resistance variation over number of pulses



(b) Output voltage when reading recorded state

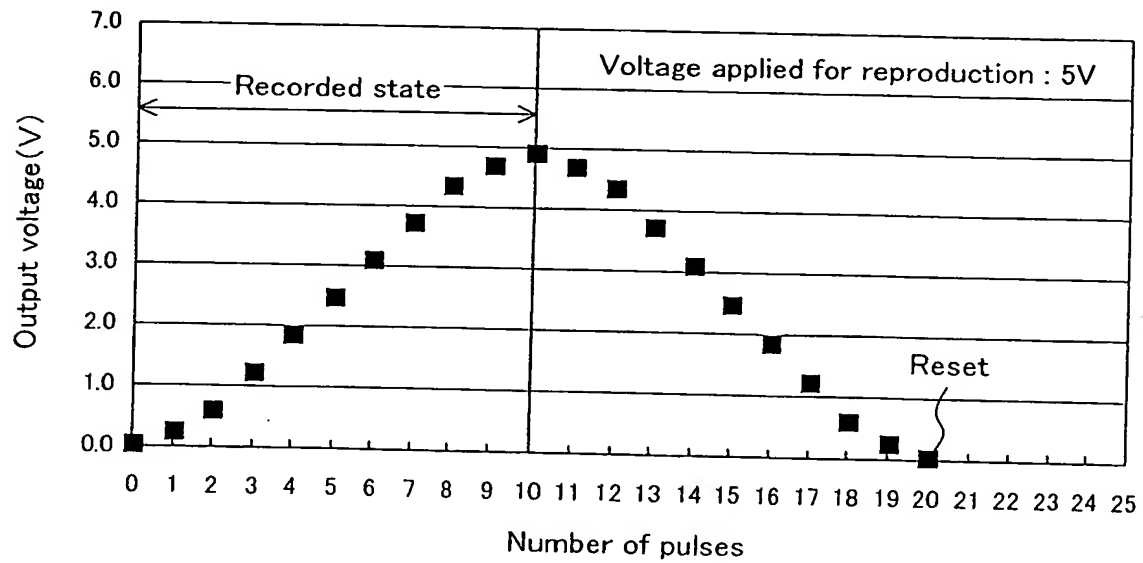
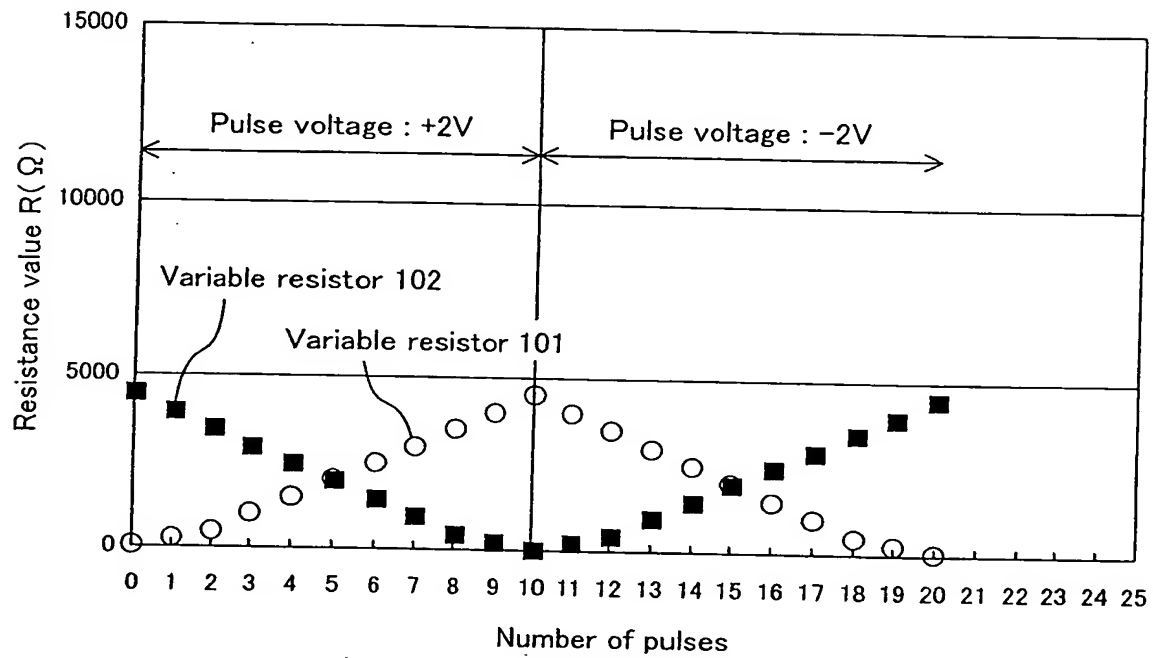


FIG. 34

(a) Resistance variation over number of pulses



(b) Output voltage when reading recorded state

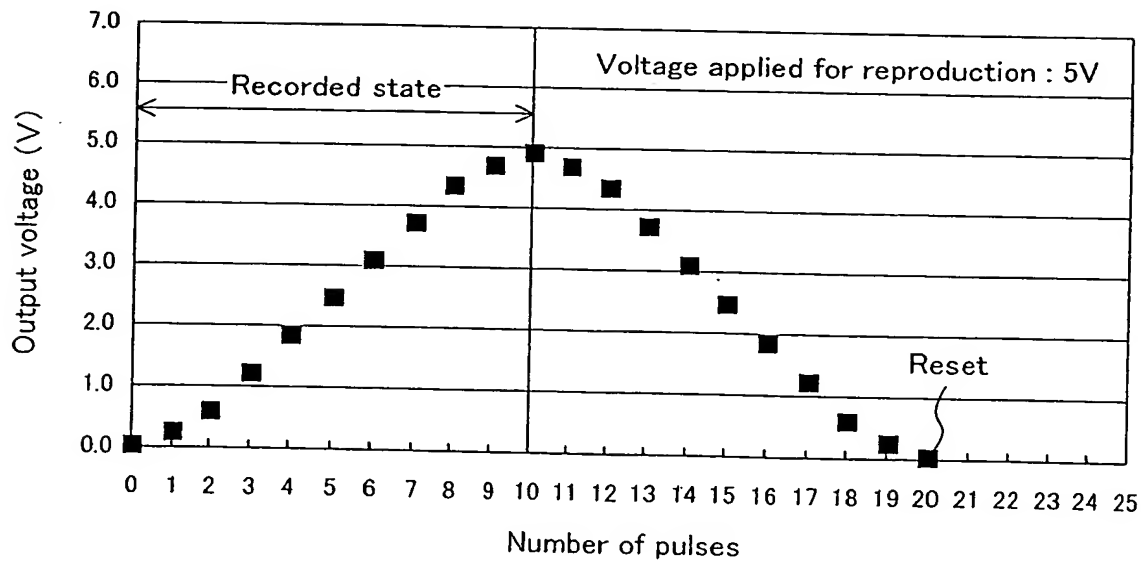


FIG. 35

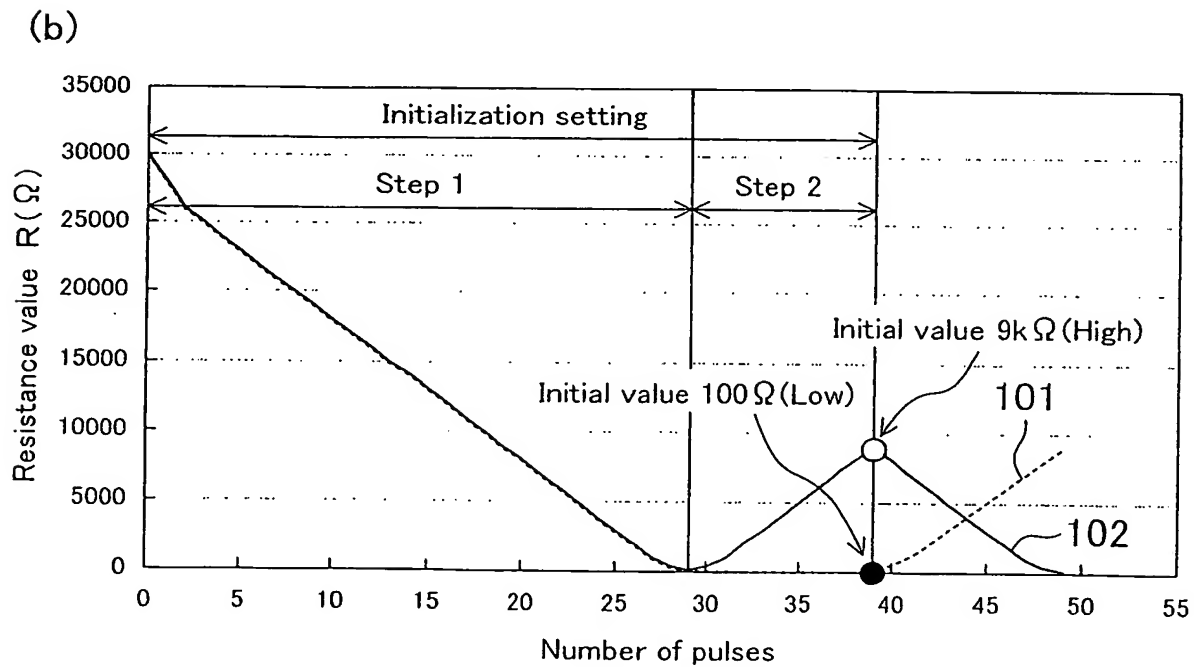
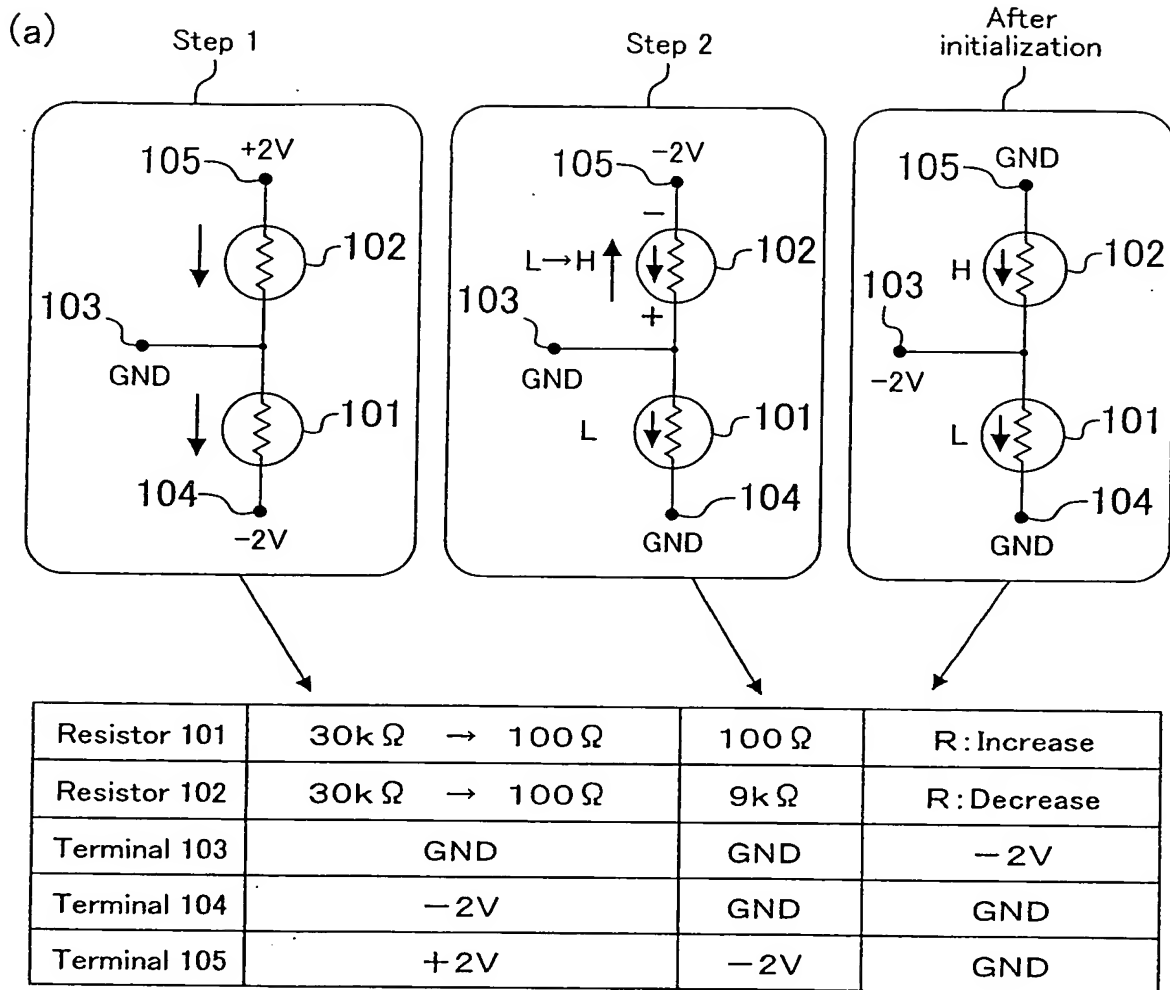


FIG. 36

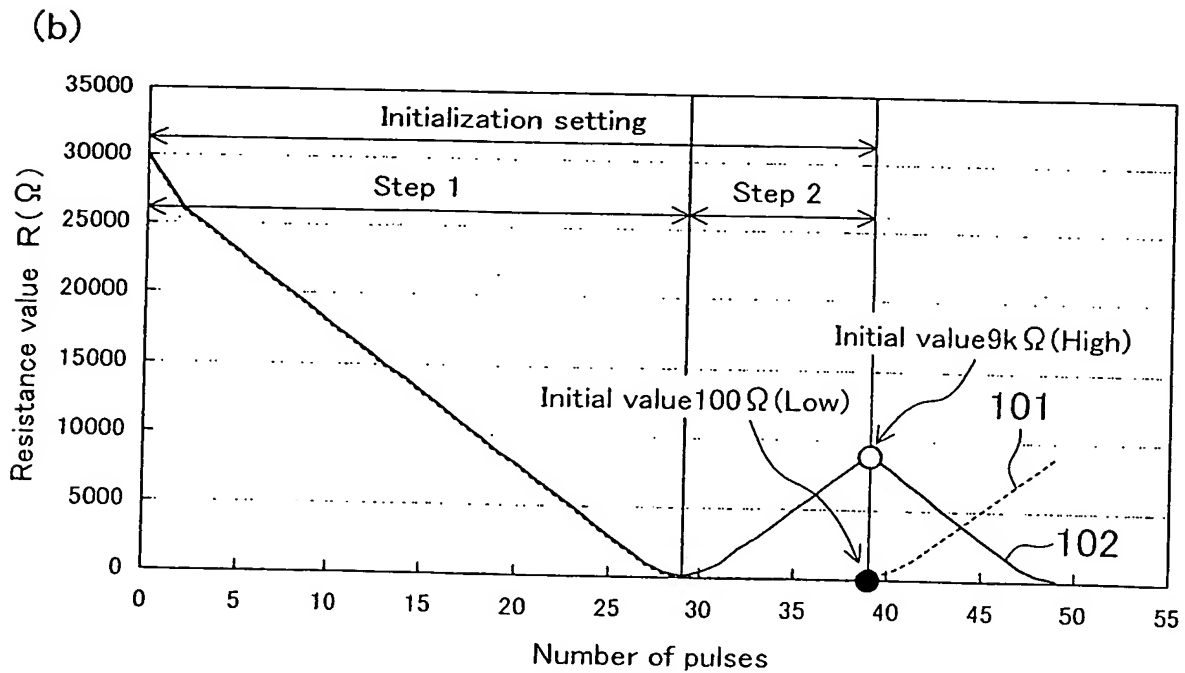
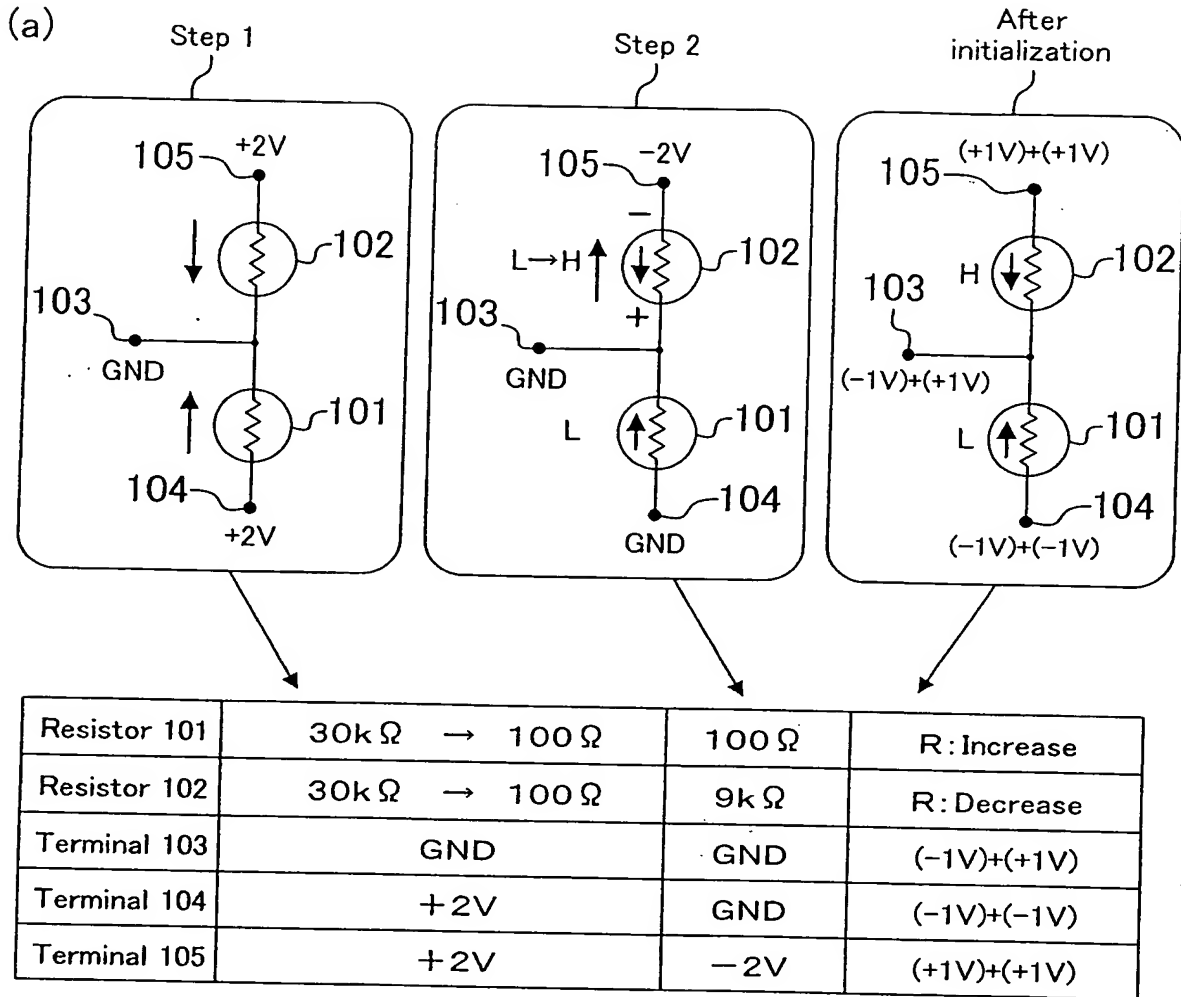
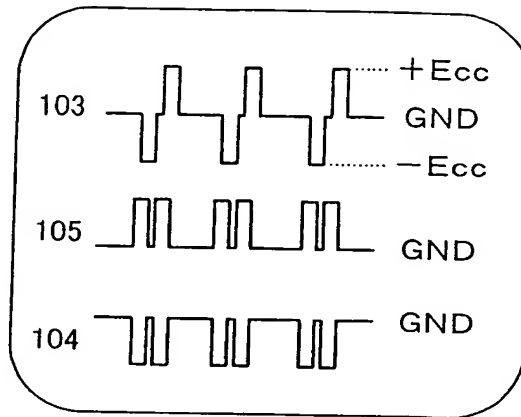


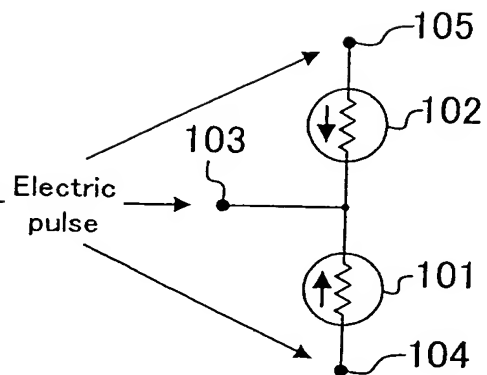
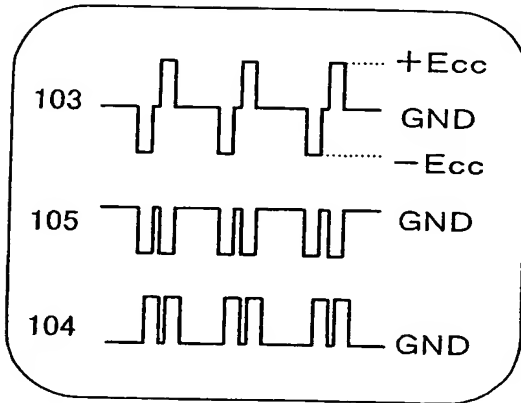
FIG. 37

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(a) Recording operation



Reset operation



(b)

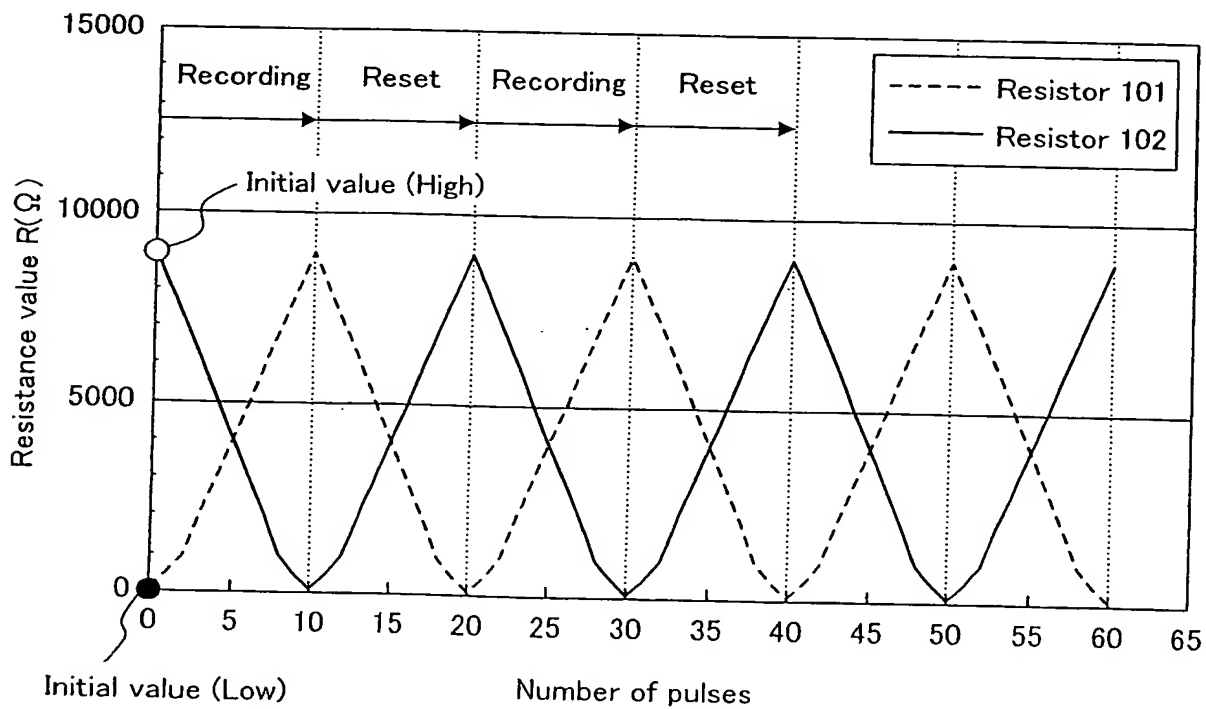
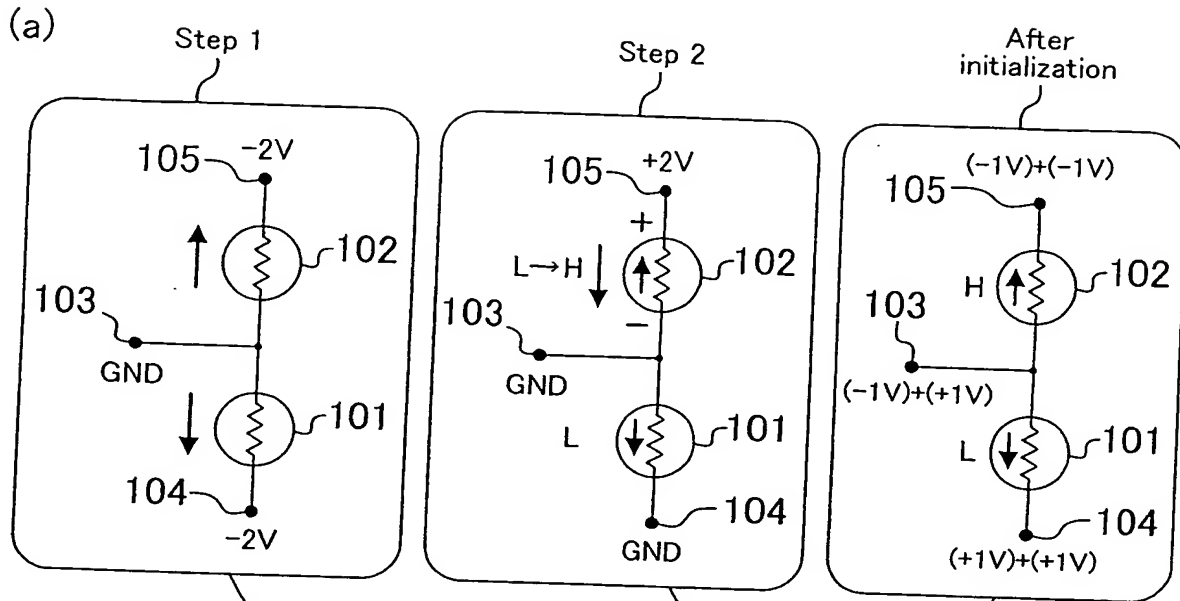


FIG. 38



Resistor 101	$30\text{k}\Omega \rightarrow 100\Omega$	$100\Omega$	R: Increase
Resistor 102	$30\text{k}\Omega \rightarrow 100\Omega$	$9\text{k}\Omega$	R: Decrease
Terminal 103	GND	GND	$(-1\text{V})+(+1\text{V})$
Terminal 104	$-2\text{V}$	GND	$(+1\text{V})+(+1\text{V})$
Terminal 105	$-2\text{V}$	$+2\text{V}$	$(-1\text{V})+(-1\text{V})$

